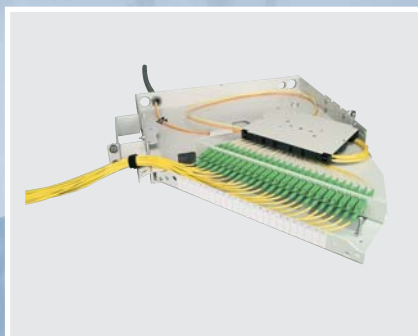


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Catalogue Data Networks

Fiber Optic Joining Technology 2011

valid from April 2011



Powering Business Worldwide

Ordering Information Page 1

Technical Specifications Page 87



Fibre Optic Enclosures



Interconnect Enclosures and Distribution Cabinets



Termination Boxes



Termination System for 19" Technology



Accessories



Fibre Optic Connectors

Table of Contents

A - M		Selection Information	Technical Data
		Page	Page
A	Adapters	KU	84
	Aluminium Clamp	LWL-AS/M	81
C	Cable Distribution Box	KAB 19H4/8K/32PG9	72
	Cable Entry Angles	DNW-KE/H	69, 75
	Cable Glands and Blind Plugs	DNW-.V/M	70
	Cable Storage Frame	DNW-K	68
	Cable Storage Frame Swing-Type	EV-KA 19H2	72
	Cable Trough for Patch Panel	DNW-KFW/SE_/19H1	68
	Cover Plate	DNW-AP/H.../STVR	69
D	Distribution Cabinets	VK1-SO	40
	Distribution Enclosure	IM	54
	Distribution Enclosure	IML	52
	Distribution Enclosure	OM	48
	Distribution Enclosure	OM10	47
	Distribution Enclosure	VK5	58
	Distribution Set	LWL-SEC23/LES/A	18
	Dome Enclosure	OM-HM	26
	Dome Enclosure	SEC15	6
	Dome Enclosure	SEC23 Classic	8
	Dome Enclosure	SEC23 Management II	12
	Dome Enclosure	SEC23 Single Element II	10
	Dome Enclosure	SEC23 Tubeless	16
	Dome Enclosure	SEC23 Tubeless Short	14
	Dust Covers	DNW-SS	70
E	External Strain Relief Set	LWL-SEC../KZX	18
F	Fibre Distribution Head	LWL-FATK/D/2/6	80
	Fibre Protection Tubes	LWL-FSR/2,1/0,3	18
H	House Distribution Enclosure	HEV10	60
I	Interconnect Enclosure	RGH6455 144	41
	Interconnect Enclosure	RGH6455 TL	42
	Interconnect Enclosure	RGV20	32
	Interconnect Enclosure	RGV20 TL	34
	Interconnect Enclosure	RGV30	36
	Interconnect Enclosure	RGV30 TL	38
M	Multiple Cable Entries		80
	Multiple Cable Entry Sets	LWL-SEC/ME	18

Table of Contents

O - Z		Selection Information	Technical Data	
		Page	Page	
O	Oval Cable Entry	LWL-OVE/2/25	80	144
P	Patch Cord Guide		80	143
	Patch Cords		85	153
	Patch Panel	DNW-SE	67	122
	Patch Panel - Tubeless System	LWL	74	137
	Patch Panel Connection Tube	STVR9	73	136
	Patch Panels Swing-Type	EV-SP 19H1/24..	72	134
	Pigtail	PT	84	153
	Pigtailclip	PC121	78	139
	Plastic Clamps	LWL-KS/M	81	145
	Protective Sleeve	SM/2F..+2B	24	100
R	Round Pole Mounting Set	LWL-SEC../RM	18	96
S	Sandwich Splice Protectors	DNW-SW32	79	142
	Sealing Set for Optical Ground Wires	LWL-SEC/AS/LES	18	95
	Splice Cassette	DNW-SK/120	78	138
	Splice Cassette	DNW-SK/121	78	139
	Splice Cassette	DNW-SK/333	78	140
	Splice Cassette	LWL-SK123	79	141
	Splice Cassette	LWL-SK223/S	79	141
	Splice Modules	SM 19 H7/..	71	132
	Splice Protection Holder	DNW-S	79	142
	Splice Protection Tubes	DNW-SR61/2,5/00	79	142
Splice Protection Tubes	LWL-SR40/2,5/00	79	142	
Subassembly Racks	BT 19 H7/12RS.	71	132	
T	Tube End Closures	LWL-RAS-R./KU/00	81	147
U	UFM-Expansion Set	LWL-ES/UFM/6455	80	143
	Universal Fittings	LWL-UF1/R	81	146
	Universal Plastic Sleeve	KM3	20	98
	Universal Plastic Sleeve	OM1	22	99
W	Wall-mounted Splice Box	WSB10	62	121
	Wire and Cable Storage Frames	LWL-SSP	28	103

Notes

Notes

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Ordering Information

Notes

Notes

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Table of Contents
Fibre Optic Enclosures

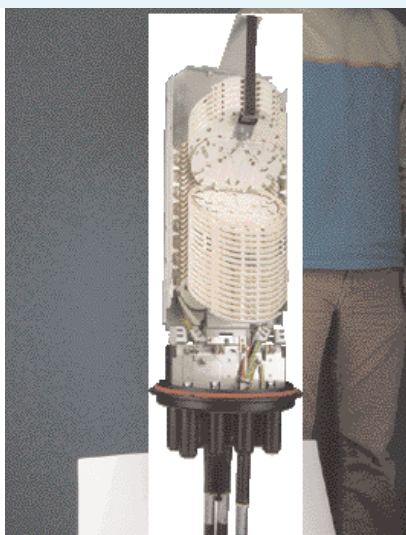
Dome Enclosures	Page 4
Dome Enclosure SEC15	Page 6
SEC23 Classic Dome Enclosure	Page 8
SEC23 Single Element II	Page 10
SEC23 Management II	Page 12
SEC23 Tubeless	Page 14
Accessories for Dome Enclosures Type SEC	Page 18
Standard Enclosures	Page 20
Universal Plastic Sleeve KM3	Page 20
Universal Plastic Sleeve OM1	Page 22
Protective Sleeve	Page 24
Protective Sleeves SM/2F..+2B	Page 24
Metal Dome Enclosures for Optical Ground Wires with Integrated Fibre	Page 26
Dome Enclosure OM-HM	Page 26
Wire and Cable Storage Frames	Page 28
Wire and Cable Storage Frame, LWL-SSP.	Page 28

Technical Specifications as of page 87.

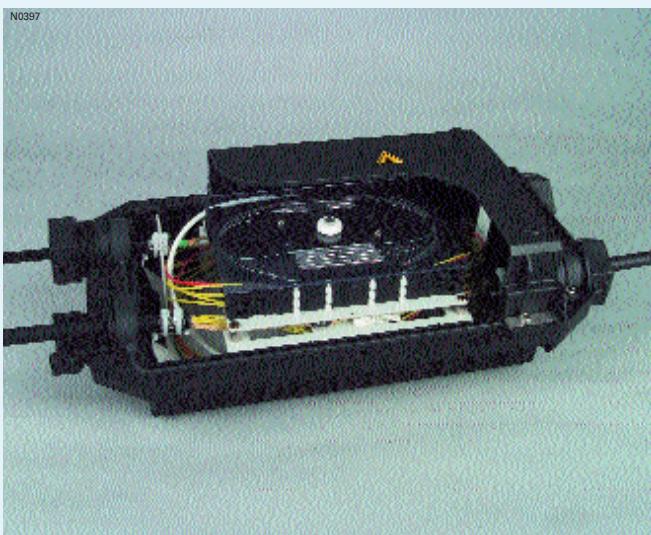
Fibre Optic Enclosures

Fibre optic enclosures, also referred to as sleeves, are used for permanent connecting and branching of fibres and fibre optic cables. The splice storage is located in a sealed plastic enclosure. The sleeves are suitable for direct underground laying and outdoor installation. In case of maintenance or repairs, the sleeves can be opened and closed again without any problem. The materials used are resistant to environmental effects (non-corrosive and UV-resistant, low water vapour permeation, metal components either powder-coated, galvanized or made of high-grade steel) thus permitting permanent outdoor installation. The special design provides for quick and easy installation. Consequently, trouble-free operation is guaranteed for several decades even for outdoor installations.

N02403



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Notes

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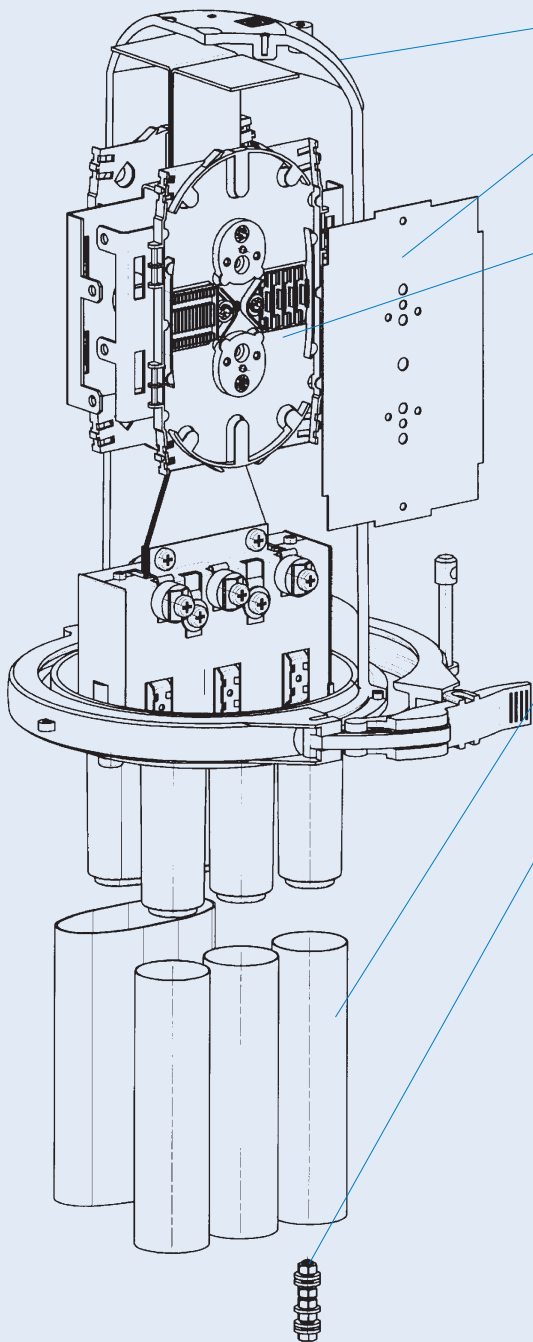
Fibre Optic Enclosures

Dome Enclosures

Dome Enclosure SEC15, Individual Assembly, LWL-S...

Ordering Guide

Technical Specifications page 88.



Basic enclosure
LWL-SEC15/GM/M

Splice cassette cover
...-SKA/120..
...-SKA/333..
Max. 2 units

Splice cassettes

Splice cassette - small
Max. 8 units
Splice cassette - small, with hinge, ...-SK/120/S..
Splice protection holder (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink., ...-SRH8..
Splice protection holder for 12 x sandwich, ...-SWH12..

Splice cassette - SK333
Max. 6 units
Splice cassette - SK333, ...-SK/333..
with holding fixture for 24x splice protection tubes LWL-SR40/2,5/00

Cable entry sets
Cable entry set 10-20mm, LWL-SEC/KES/10-20..
Max. 3 units
Oval cable entry set, LWL-SEC/KES/OVAL..
Max. 1 unit for 2 cables 10-25mm, uncut

Ground wire entry
LWL-SEC/ED..
Max. 1 unit

Fibre Optic Enclosures

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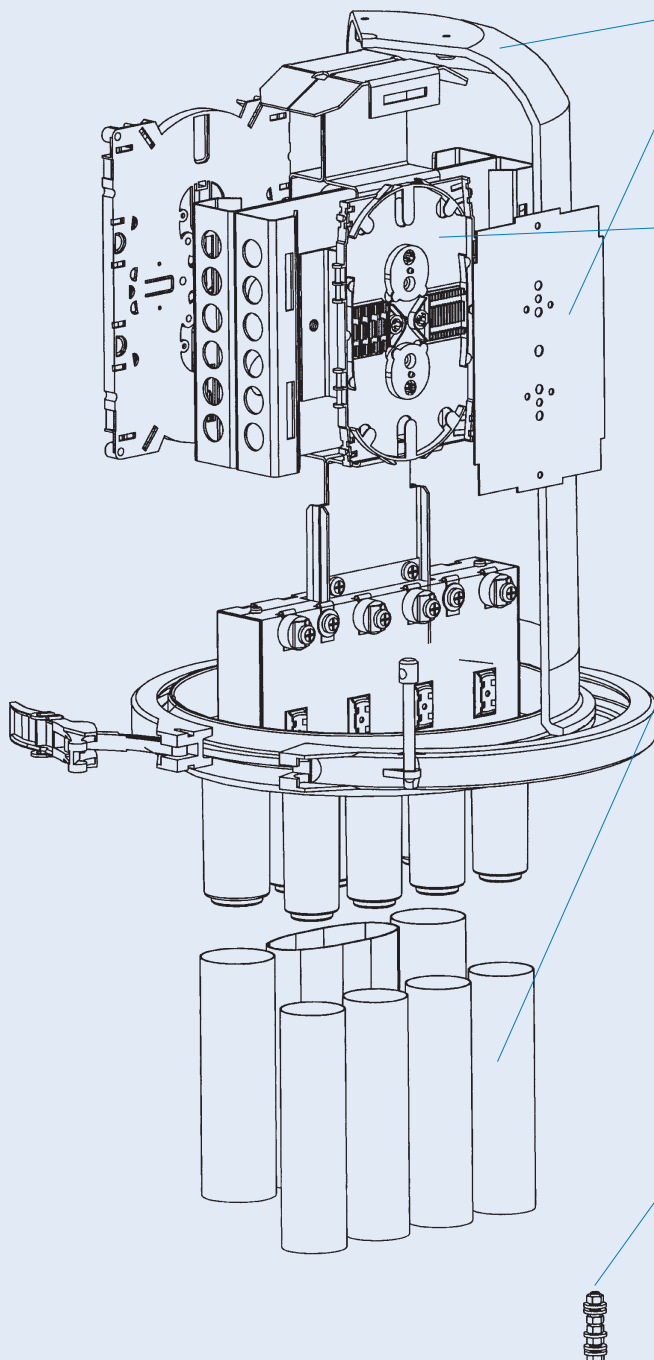
Version	Type Designation	Article No.	Units per Package
Dome Enclosure SEC15, Standard Types, komplette for all applications			
Connection sleeve shrink	SEC15-VM/SR	966315001	1
Branch-off sleeve shrink	SEC15-AM/SR	966315002	1
Universal sleeve shrink	SEC15-UM/SR	966315003	1
Connection sleeve sandwich	SEC15-VM/SW	966315004	1
Branch-off sleeve sandwich	SEC15-AM/SW	966315005	1
Universal sleeve sandwich	SEC15-UM/SW	966315006	1
Dome Enclosure SEC15, Individual Assembly, LWL-S.			
Basic enclosure	LWL-SEC15/GM/M	966315000	1
Small splice cassette with hinge	LWL-SK/120/S/MS/M	760001056	1
SK333 splice cassette with hinge	LWL-SK/333/MS/M	760001057	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover f. SK120S	LWL-SKA/120/M	760001252	1
Splice cassette cover f. SK333	LWL-SKA/333/M	760001254	1
Cable entry set 10-20mm	LWL-SEC/KES/10-20/M	760000951	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Ground wire entry	LWL-SEC/ED/M	760317052	1
Accessories for SEC15 Dome Enclosures, LWL-S.. and DNW-S..			
Cable entry set 10-20mm	LWL-SEC/KES/10-20	761317001	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Wall mounting set	LWL-SEC15/MM	966316701	1
Steel tower mounting set	LWL-SEC15/SM	966316702	1
Round pole mounting set	LWL-SEC15/RM	966316703	1
Corner post mounting set - small	LWL-SEC15/EK/01	966316704	1
Splice cassette - small	DNW-SK/120/S	237473	1
Hinge for splice cassette small	DNW-S/SK/120/S	237474	1
Splice cassette SK333	DNW-SK/333	143102	1
Hinge for splice cassette SK333	DNW-S/SK/333	143103	1
Splice cassette cover f. SK120S	DNW-SKA/120	237480	1
Splice cassette cover f. SK333	DNW-SKA/333	143104	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Ground wire entry	LWL-SEC/ED	761317052	1
Shield connection set	LWL-SEC/SVS	761317051	1

Fibre Optic Enclosures

SEC23 Classic Dome Enclosure, Individual Assembly, LWL-S...

Ordering Guide

Technical Specifications page 89.



Basic enclosure
LWL-SEC23/S/C/GM/M

Splice cassette cover
...-SKA/120..
...-SKA/121..
Max. 2 units

Splice cassettes

Splice cassette - small

Max. 20 units (max. 24 units with Basic Enclosure T16)
Splice cassette - small, ...-SK/120/S..
Splice protection holder (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink., ...-SRH8..
Splice protection holder for 12 x sandwich, ...-SWH12..

Splice cassette - large

Max. 12 units (max. 16 units with Basic Enclosure T16)
Splice cassette - large, ...-SK/121..
Splice protection holder (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink., ...-SRH8..
Splice protection holder for 12 x heat-shrink., ...-SRH12..
Splice protection holder for 12 x sandwich, ...-SWH12..

Cable entry sets

Cable entry set 10-20mm, LWL-SEC/KES/10-20..
Max. 4 units
Cable entry set 10-25mm, LWL-SEC/KES/10-25..
Max. 2 units
Oval cable entry set, LWL-SEC/KES/OVAL..
Max. 1 unit for 2 cables 10-25mm, uncut

Additional cable entries

Max. 1 unit

Additional cable entries 3x blank, LWL-SEC23/KEZ/3B/M..
3 Blanking plugs - heat-shrinkable, 16mm, prepared by the manufacturer.
(Each cable requires a heat-shrinkable 16mm cable entry
LWL-KDF/S/3/16).

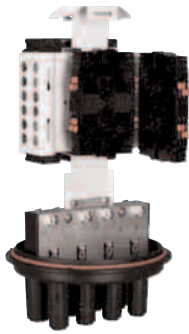
Additional cable entries 3x blank and 3x3-16mm, LWL-SEC23/KEZ/3B+3K/M
3 Blanking plugs - heat-shrinkable, 16mm, and 3 heat-shrinkable cable
entries of 16 mm, prepared by the manufacturer.

Ground wire entry

LWL-SEC/ED..
Max. 1 unit

Fibre Optic Enclosures

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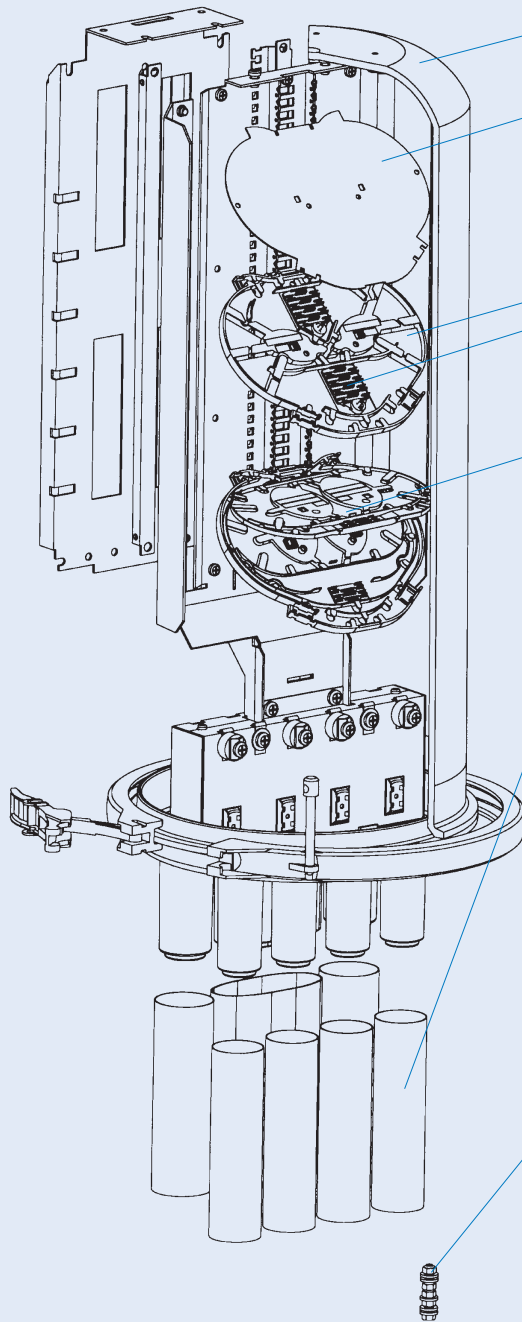
Version	Type Designation	Article No.	Units per Package
SEC23 Classic, Individual Assembly, LWL-S.			
Basic enclosure	LWL-SEC23/C/GM/M	966410000	1
Basic enclosure short	LWL-SEC23/S/C/GM/M	966410005	1
Basic enclosure short T16	LWL-SEC23/S/C/GM/T16/M	966410006	1
Splice cassette - small, with hinge	LWL-SK/120/S/MS/M	760001056	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK120S	LWL-SKA/120/M	760001252	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Cable entry set 10-20mm	LWL-SEC/KES/10-20/M	760000951	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25/M	760000952	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Additional cable entries 3xblank	LWL-SEC23/KEZ/3B/M	966411251	1
Add. cable entries 3xblank and 3x3-16mm	LWL-SEC23/KEZ/3B+3K/M	966411252	1
Ground wire entry	LWL-SEC/ED/M	760317052	1
Accessories for SEC23 Classic, LWL-S.. and DNW-S..			
Cable entry set 10-20mm	LWL-SEC/KES/10-20	761317001	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25	761317004	1
Cable entry set - oval	LWL-SEC/KES/OVAL	761317003	1
1 Cable entry 3-16mm f. add. entry	LWL-SEC23/KEZ/1K	966411261	1
3 Cable entries 3-16mm f. add. entries	LWL-SEC23/KEZ/3K	966411262	1
Wall mounting set	LWL-SEC23/WM	966411501	1
Steel tower mounting set	LWL-SEC23/SM	966411502	1
Round pole mounting set	LWL-SEC23/RM	966411503	1
Small corner post mounting set	LWL-SEC23/EK/01	966411504	1
Large corner post mounting set	LWL-SEC23/EK/02	966411505	1
Splice cassette - small	DNW-SK/120/S	237473	1
Hinge for small splice cassette	DNW-S/SK/120/S	237474	1
Splice cassette - large	DNW-SK/121	237475	1
Splice cassette cover for SK120S	DNW-SKA/120	237480	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Ground wire entry	LWL-SEC/ED	761317052	1
Shield connection set	LWL-SEC/SVS	761317051	1
Mounting support SEC23	LWL-SEC23/MH	on request	1

Fibre Optic Enclosures

SEC23 Single Element II, Individual Assembly, LWL-S...

Ordering Guide

Technical Specifications page 90.



Base enclosure
LWL-SEC23/SEII/GM/M

Splice cassette cover
LWL-SKAX23..
Max. 1 unit

Splice cassettes
Max. 38 units

SE Single Element
Splice cassette SE, LWL-SK123..
Splice protection holders (max. 2 units per splice cassette)
Splice protection holder for 8x heat-shrinkable, ...-SRH8..
Splice protection holder for 12x sandwich, ...-SWH12..

SC Single Circuit
Splice cassette SC
Splice cassette for 2x4 heat-shrinkable, LWL-SK223/SR..
Splice cassette for 2x6 sandwich, LWL-SK223/SW..

Cable Entry Sets
Cable entry set 10-20mm, LWL-SEC/KES/10-20..
Max. 4 units
Cable entry set 10-25mm, LWL-SEC/KES/10-25..
Max. 2 units
Cable entry set - oval, LWL-SEC/KES/OVAL..
Max. 1 unit for 2 cables of 10-25mm, uncut

Additional Cable Entries
Max. 1 unit
Additional cable entries, 3xblank, LWL-SEC23/KEZ/3B/M..
3 Blanking plugs - heat-shrinkable, 16mm, prepared by the manufacturer.
(Each cable requires a heat-shrinkable 16 mm cable entry LWL-KDF/S/3/16).

Additional cable entries 3xblank and 3x3-16mm, LWL-SEC23/KEZ/3B+3K/M
3 Blanking plugs - heat-shrinkable, 16mm, and 3 heat-shrinkable cable
entries of 16mm, prepared by the manufacturer.

Ground wire entry
LWL-SEC/ED..
Max. 1 unit

Fibre Optic Enclosures

N02303



Version	Type Designation	Article No.	Units per Package
SEC23 Single Element II, Individual Assembly, LWS-S...			
Base enclosure *)	LWL-SEC23/SEII/GM/M	966410090	1
Splice cassette SE	LWL-SK123/M	760001051	1
Holder - 8 splice protection tubes	LWL-SRH8/M	760001151	1
Holder - 12 sandwich splice protectors	LWL-SWH12/M	760001152	1
Splice cassette SC heat-shrink.	LWL-SK223/SR/M	760001052	1
Splice cassette SC sandwich	LWL-SK223/SW/M	760001053	1
Splice cassette cover	LWL-SKAX23/M	760001251	1
Cable entry set 10-20mm	LWL-SEC/KES/10-20/M	760000951	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25/M	760000952	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Additional cable enties 3xblank	LWL-SEC23/KEZ/3B/M	966411251	1
Add. cable entries 3xblank + 3x3-16mm	LWL-SEC23/KEZ/3B+3K/M	966411252	1
Ground wire entry	LWL-SEC/ED/M	760317052	1
SEC23 Single Element II, Accessories, LWL-S... and DNW-S...			
Cable entry set 10-20mm	LWL-SEC/KES/10-20	761317001	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25	761317004	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
1 Cable entry 3-16mm f. add. entry	LWL-SEC23/KEZ/1K	966411261	1
3 Cable entries 3-16mm f. add. entries	LWL-SEC23/KEZ/3K	966411262	1
Wall mounting set	LWL-SEC23/WM	966411501	1
Steel tower mounting set	LWL-SEC23/SM	966411502	1
Round pole mounting set	LWL-SEC23/RM	966411503	1
Corner post mounting set - small	LWL-SEC23/EK/01	966411504	1
Corner post mounting set - large	LWL-SEC23/EK/02	966411505	1
Splice cassette SE	LWL-SK123	760001001	1
Splice cassette SC heat-shrink.	LWL-SK223/SR	760001002	1
Splice cassette SC sandwich	LWL-SK223/SW	760001003	1
Splice cassette cover	LWL-SKAX23	760001201	1
Holder - 8 splice protection tubes	DNW-SRH8	237476	1
Holder - 12 sandwich splice protectors	DNW-SWH12	237477	1
Ground wire entry	LWL-SEC/ED	761317052	1
Shield connection set	LWL-SEC/SVS	761317051	1
Mounting support SEC23	LWL-SEC23/MH	on request	1

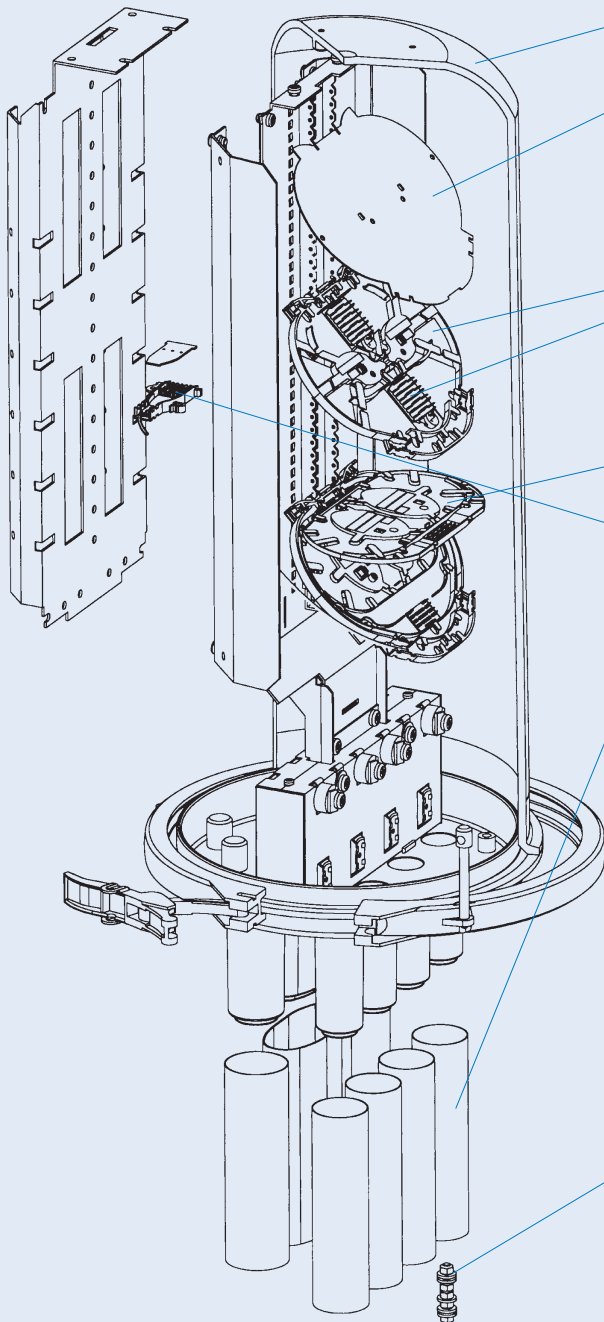
*) The base enclosure is also for 36 x SK123 with SRH12 suitable (on request).

Fibre Optic Enclosures

SEC23 Management II, Individual Assembly, LWL-S...

Ordering Guide

Technical Specifications page 91.



Base enclosure
LWL-SEC23/MII/GM/M

Splice cassette cover
LWL-SKAX23..
Max. 1 unit

Splice cassettes and fibre distribution head
Max. 38 units

SE Single Element
Splice cassette SE, LWL-SK123..
Splice protection holders (max. 2 units per splice cassette)
Splice protection holder for 8x heat-shrinkable, ...-SRH8..
Splice protection holder for 12x sandwich, ...-SWH12..
Fibre distribution head, LWL-FATK/2/6..

SC Single Circuit
Splice cassette SC
Splice cassette for 2x4 heat-shrinkable, LWL-SK223/SR..
Splice cassette for 2x6 sandwich, LWL-SK223/SW..
Fibre distribution head, LWL-FATK/2/6..
Cover for fibre distribution head, LWL-D/FATK/2/6..
Fibre protection tubes, LWL-FSR/2,1/0,3..

Cable Entry Sets
Cable entry set 10-20mm, LWL-SEC/KES/10-20..
Max. 4 units
Cable entry set 10-25mm, LWL-SEC/KES/10-25..
Max. 2 units
Oval cable entry set, LWL-SEC/KES/OVAL..
Max. 1 unit for 2 cables of 10-25mm, uncut

Additional Cable Entries
Max. 1 unit
Additional cable entries 3xblank, LWL-SEC23/KEZ/3B/M..
3 Blanking plugs - heat-shrinkable, 16mm, prepared by the manufacturer.
(Each cable requires a heat-shrinkable 16mm cable entry LWL-KDF/S/3/16).

Additional cable entries 3xblank and 3x3-16mm, LWL-SEC23/KEZ/3B+3K/M
3 Blanking plugs - heat-shrinkable, 16mm, and 3 heat-shrinkable cable
entries of 16 mm, prepared by the manufacturer.

Ground wire entry
LWL-SEC/ED..
Max. 1 unit

Fibre Optic Enclosures

N02503



Version	Type Designation	Article No.	Units per Package
SEC23 Management II, Individual Assembly, LWL-S...			
Base enclosure *)	LWL-SEC23/MII/GM/M	966410060	1
Splice cassette SE	LWL-SK123/M	760001051	1
Holder - 8 splice protection tubes	LWL-SRH8/M	760001151	1
Holder - 12 sandwich splice protectors	LWL-SWH12/M	760001152	1
Splice cassette SC heat-shrink.	LWL-SK223/SR/M	760001052	1
Splice cassette SC sandwich	LWL-SK223/SW/M	760001053	1
Splice cassette cover	LWL-SKAX23/M	760001251	1
Fibre distribution head	LWL-FATK/2/6/M	760001451	1
Cover for fibre distribution head	LWL-D/FATK/2/6/M	760001452	1
Fibre protection tubes	LWL-FSR/2,1/0,3/M	760001453	1
Cable entry set 10-20mm	LWL-SEC/KES/10-20/M	760000951	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25/M	760000952	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Add. cable entries 3xblank	LWL-SEC23/KEZ/3B/M	966411251	1
Add. cable entries 3xblank + 3x3-16mm	LWL-SEC23/KEZ/3B+3K/M	966411252	1
Ground wire entry	LWL-SEC/ED/M	760317052	1
SEC23 Management II, Accessories, LWL-S... and DNW-S...			
Cable entry set 10-20mm	LWL-SEC/KES/10-20	761317001	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25	761317004	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
1 Cable entry 3-16mm f. add. entry	LWL-SEC23/KEZ/1K	966411261	1
3 Cable entries 3-16mm f. add. entries	LWL-SEC23/KEZ/3K	966411262	1
Wall mounting set	LWL-SEC23/MM	966411501	1
Steel tower mounting set	LWL-SEC23/SM	966411502	1
Round pole mounting set	LWL-SEC23/RM	966411503	1
Corner post mounting set - small	LWL-SEC23/EK/01	966411504	1
Corner post mounting set - large	LWL-SEC23/EK/02	966411505	1
Splice cassette SE	LWL-SK123	760001001	1
Splice cassette SC heat-shrink.	LWL-SK223/SR	760001002	1
Splice cassette SC sandwich	LWL-SK223/SW	760001003	1
Splice cassette cover	LWL-SKAX23	760001201	1
Holder - 8 splice protection tubes	DNW-SRH8	237476	1
Holder - 12 sandwich splice protectors	DNW-SWH12	237477	1
Ground wire entry	LWL-SEC/ED	761317052	1
Shield connection set	LWL-SEC/SVS	761317051	1
Fibre distribution head + cover	LWL-FATK/D/2/6	966411801	1
Fibre protection tubes	LWL-FSR/2,1/0,3	761317050	1
Mounting support SEC23	LWL-SEC23/MH	on request	1

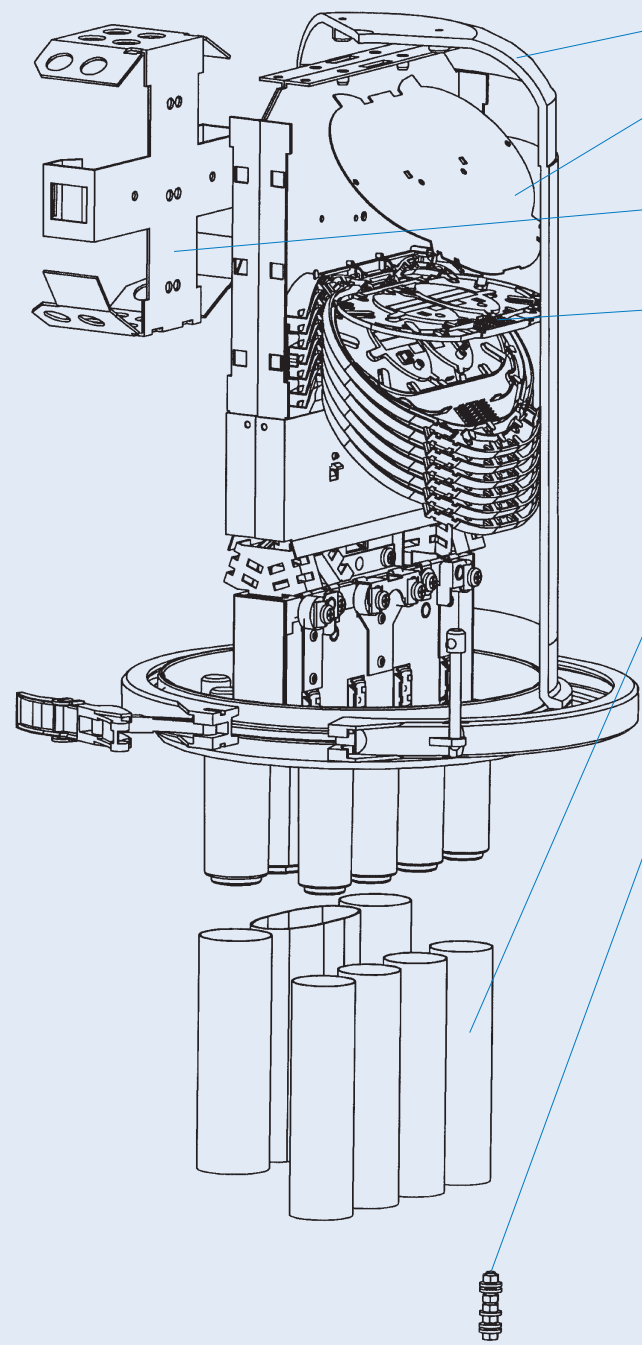
*) The base enclosure is also for 36 x SK123 with SRH12 suitable (on request).

Fibre Optic Enclosures

SEC23 Tubeless Short, Individual Assembly, LWL-S...

Ordering Guide

Technical Specifications page 92.



Base enclosure
LWL-SEC23/S/TL/GM/M

Splice cassette cover
LWL-SKAX23..
Max. 2 units

Storage frame for reserve lengths
LWL-SEC23/S/TL/US..
Max. 2 units

Splice cassette set
36 splice cassettes (18 units either side) = max. 6 sets (3 units either side)

SE Single Element
Splice cassette set for 6x16 heat-shrinkable, LWL-SEC23/TL/KS/6SK123/SR/M
Splice cassette set for 6x12 sandwich, LWL-SEC23/TL/KS/6SK123/SW/M

SC Single Circuit
Splice cassette set for 6x2x4 heat-shrinkable, LWL-SEC23/TL/KS/6SK223/SR/M
Splice cassette set for 6x2x6 sandwich, LWL-SEC23/TL/KS/6SK223/SW/M

Cable Entry Sets
Cable entry set 10-20mm, LWL-SEC/KES/10-20..
Max. 4 units
Cable entry set 10-25mm, LWL-SEC/KES/10-25..
Max. 2 units
Oval cable entry set, LWL-SEC/KES/OVAL..
Max. 1 unit for 2 uncut cables of 10-25mm

Ground wire entry
LWL-SEC/ED..
Max. 1 unit

Fibre Optic Enclosures

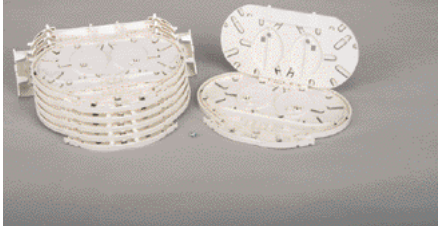
N01207



N01307



N02703



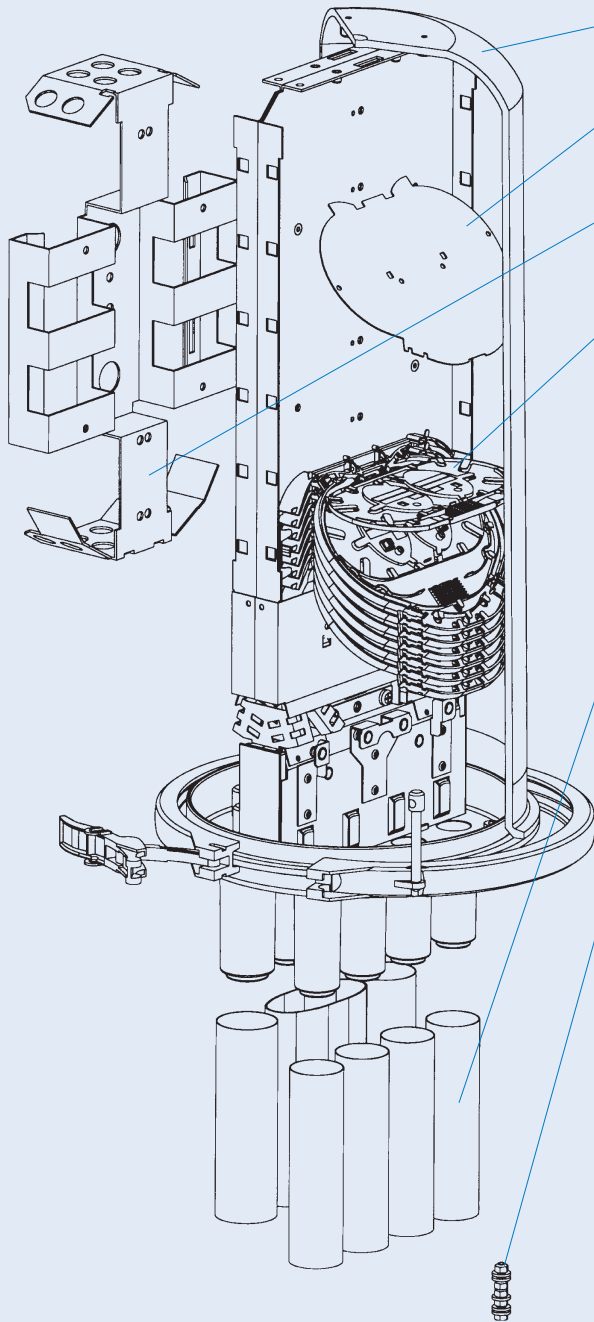
Version	Type Designation	Article No.	Units per Package
SEC23 Tubeless Short, Individual Assembly, LWL-S...			
Base enclosure	LWL-SEC23/S/TL/GM/M	966443000	1
Reserve lengths storage	LWL-SEC23/S/TL/US/M	760443001	1
Splice cassette set 6xSE heat-shrink.	LWL-SEC23/TL/KS/6SK123/SR/M	760442002	1
Splice cassette set 6xSE sandwich	LWL-SEC23/TL/KS/6SK123/SW/M	760442003	1
Splice cassette set 6xSC heat-shrink.	LWL-SEC23/TL/KS/6SK223/SR/M	760442004	1
Splice cassette set 6xSC sandwich	LWL-SEC23/TL/KS/6SK223/SW/M	760442005	1
Splice cassette cover	LWL-SKAx23/M	760001251	1
Cable entry set 10-20mm	LWL-SEC/KES/10-20/M	760000951	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25/M	760000952	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Ground wire entry	LWL-SEC/ED/M	760317052	1
SEC23 Tubeless Short, Accessories, LWL-S... and DNW-S...			
Cable entry set 10-20mm	LWL-SEC/KES/10-20	761317001	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25	761317004	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Wall mounting set	LWL-SEC23/WM	966411501	1
Steel tower mounting set	LWL-SEC23/SM	966411502	1
Round pole mounting set	LWL-SEC23/RM	966411503	1
Corner post mounting set - small	LWL-SEC23/EK/01	966411504	1
Corner post mounting set - large	LWL-SEC23/EK/02	966411505	1
Reserve lengths storage	LWL-SEC23/S/TL/US	760443051	1
Splice cassette SE	LWL-SK123	760001001	1
Splice cassette SC heat-shrink.	LWL-SK223/SR	760001002	1
Splice cassette SC sandwich	LWL-SK223/SW	760001003	1
Splice cassette cover	LWL-SKAx23	760001201	1
Holder - 8 splice protection tubes	DNW-SRH8	237476	1
Holder - 12 sandwich splice protectors	DNW-SWH12	237477	1
Ground wire entry	LWL-SEC/ED	761317052	1
Shield connection set	LWL-SEC/SVS	761317051	1
Mounting support SEC23	LWL-SEC23/MH	on request	1
Patch angle 12x FC	LWL-SEC23/TL/PW/12FC	760442010	1
Patch angle 24x SC simplex	LWL-SEC23/TL/PW/24SC/S	760442011	1

Fibre Optic Enclosures

SEC23 Tubeless, Individual Assembly, LWL-S...

Ordering Guide

Technical Specifications page 93.



Base enclosure
LWL-SEC23/TL/GM/M

Splice cassette cover
LWL-SKAX23..
Max. 2 units

Storage frame for reserve lengths
LWL-SEC23/TL/US..
Max. 2 units

Splice cassette set
72 splice cassettes (36 units either side) = max. 12 sets (6 units either side)

SE Single Element
Splice cassette set for 6x16 heat-shrinkable, LWL-SEC23/TL/KS/6SK123/SR/M
Splice cassette set for 6x12 sandwich, LWL-SEC23/TL/KS/6SK123/SW/M

SC Single Circuit
Splice cassette set for 6x2x4 heat-shrinkable, LWL-SEC23/TL/KS/6SK223/SR/M
Splice cassette set for 6x2x6 sandwich, LWL-SEC23/TL/KS/6SK223/SW/M

Cable Entry Sets
Cable entry set 10-20mm, LWL-SEC/KES/10-20..
Max. 4 units
Cable entry set 10-25mm, LWL-SEC/KES/10-25..
Max. 2 units
Oval cable entry set, LWL-SEC/KES/OVAL..
Max. 1 unit for 2 uncut cables of 10-25mm

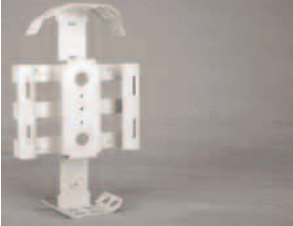
Ground wire entry
LWL-SEC/ED..
Max. 1 unit

Fibre Optic Enclosures

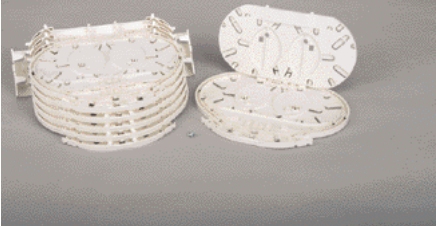
N02403



N02603

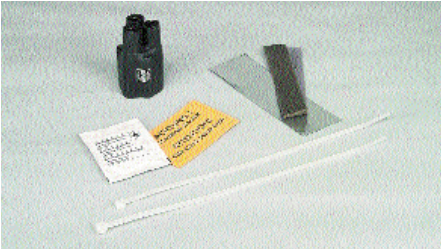
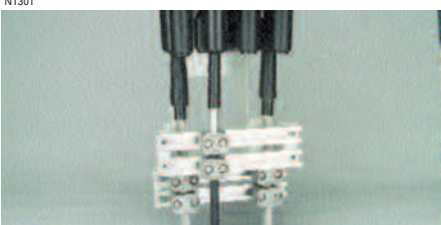
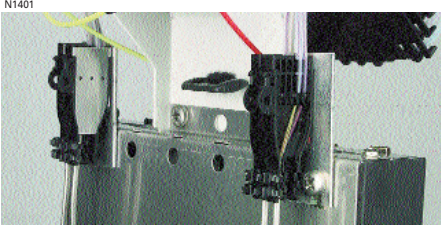


N02703



Version	Type Designation	Article No.	Units per Package
SEC23 Tubeless, Individual Assembly, LWL-S...			
Base enclosure	LWL-SEC23/TL/GM/M	966442000	1
Reserve lengths storage	LWL-SEC23/TL/US/M	760442051	1
Splice cassette set 6xSE heat-shrink.	LWL-SEC23/TL/KS/6SK123/SR/M	760442002	1
Splice cassette set 6xSE sandwich	LWL-SEC23/TL/KS/6SK123/SW/M	760442003	1
Splice cassette set 6xSC heat-shrink.	LWL-SEC23/TL/KS/6SK223/SR/M	760442004	1
Splice cassette set 6xSC sandwich	LWL-SEC23/TL/KS/6SK223/SW/M	760442005	1
Splice cassette cover	LWL-SKAX23/M	760001251	1
Cable entry set 10-20mm	LWL-SEC/KES/10-20/M	760000951	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25/M	760000952	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Ground wire entry	LWL-SEC/ED/M	760317052	1
SEC23 Tubeless, Accessories, LWL-S... and DNW-S...			
Cable entry set 10-20mm	LWL-SEC/KES/10-20	761317001	1
Cable entry set 10-25mm	LWL-SEC/KES/10-25	761317004	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Wall mounting set	LWL-SEC23/WM	966411501	1
Steel tower mounting set	LWL-SEC23/SM	966411502	1
Round pole mounting set	LWL-SEC23/RM	966411503	1
Corner post mounting set - small	LWL-SEC23/EK/01	966411504	1
Corner post mounting set - large	LWL-SEC23/EK/02	966411505	1
Reserve lengths storage	LWL-SEC23/TL/US	760442001	1
Splice cassette SE	LWL-SK123	760001001	1
Splice cassette SC heat-shrink.	LWL-SK223/SR	760001002	1
Splice cassette SC sandwich	LWL-SK223/SW	760001003	1
Splice cassette cover	LWL-SKAX23	760001201	1
Holder - 8 splice protection tubes	DNW-SRH8	237476	1
Holder - 12 sandwich splice protectors	DNW-SWH12	237477	1
Ground wire entry	LWL-SEC/ED	761317052	1
Shield connection set	LWL-SEC/SVS	761317051	1
Mounting support SEC23	LWL-SEC23/MH	on request	1
Patch angle 12x FC	LWL-SEC23/TL/PW/12FC	760442010	1
Patch angle 24x SC simplex	LWL-SEC23/TL/PW/24SC/S	760442011	1

Fibre Optic Enclosures

		Accessories for Dome Enclosures Type SEC		
Technical Specifications page 95.		Version	Type Designation	Article No. Units per Package
N2201 		Multiple Cable Entry Sets, LWL-SEC/ME/. Triple Ø 5-9/10* mm LWL-SEC/ME/3 761317008 1 Quadruple Ø 3-8/9* mm LWL-SEC/ME/4 761317009 1 * for 25 mm connection bushes		
N2401 		Sealing Set for Optical Ground Wires - OPGW (LES), LWL-SEC/AS/LES Sealing set LWL-SEC/AS/LES 761317010 1		
N1701 		Round Pole Mounting Set, LWL-SEC../RM/.. Round Pole Mounting Set SEC15 LWL-SEC15/RM 966316703 1 Round Pole Mounting Set SEC23 LWL-SEC23/RM 966411503 1 High-grade steel strip 19x0.75mm - roll of 30 m LWL-SEC23/RM/ESB 165920023 1 Closing buckles for steel strip LWL-SEC23/RM/VL 165920024 1 Tightening device LWL-SEC23/RM/SG 165920025 1		
N1301 		External Strain Relief Set*, LWL-SEC../KZX External strain relief set SEC15 LWL-SEC15/KZX 966316705 1 External strain relief set SEC23 LWL-SEC23/KZX 966411301 1 * suitable clamps on page xx		
N1401 		Distribution Set for Optical Ground Wires with a Large Number of Integrated Fibres, LWL-SEC/LES/A Distribution set for optical ground wires SEC23 LWL-SEC23/LES/A 761317011 1		
N2801 		Fibre Protection Tubes, LWL-FSR/2,1/0,3... Fibre protection tubes 10 m LWL-FSR/2,1/0,3 761317050 1 Fibre protection tubes 250 m* LWL-FSR/2,1/0,3/250 050941500 250 m * Article no. is listed per meter		

Notes

Notes

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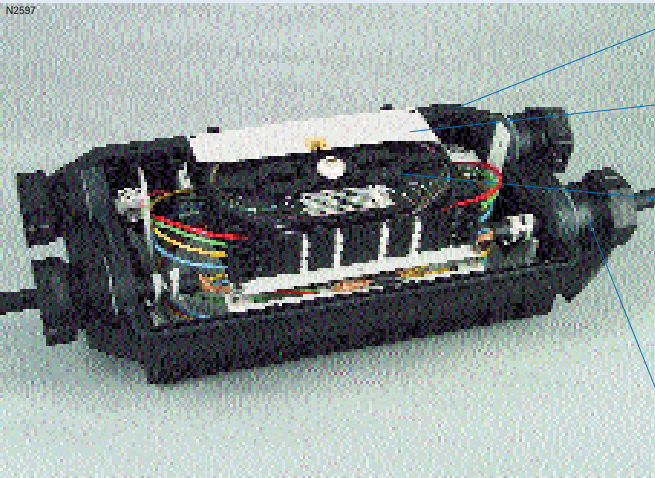
Fibre Optic Enclosures

Standard Enclosures

Universal Plastic Sleeve KM3, Individual Assembly, LWL...

Ordering Guide

Technical Specifications page 98.



Basic sleeve

LWL-KM3/GM/M

Splice cassette cover

...-SKA/121..

Max. 1 unit

Splice cassettes

Max. 6 units

Splice cassette - large, ...-SK/121..

Splice protection holder (max. 2 units per splice cassette)

Splice protection holder for 8 x heat-shrink, ...-SRH8..

Splice protection holder for 12 x heat-shrink, ...-SRH12..

Splice protection holder for 12 x sandwich, ...-SWH12..

Cable entry sets

Max. 4 units

Cable entry set 9-25mm, LWL-KM3/KES/9-25..

Blank cable entry set, LWL-KM3/KES/B..

Attention! Spare cable entries must be closed with a blank cable entry:

4 minus (number of LWL-KM3/KES/9-25..) = (number of LWL-KM3/KES/B..)

Fibre Optic Enclosures

N2697



Version	Type Designation	Article No.	Units per Package
Universal Plastic Sleeve KM3, Standard Model, KM3...			
1 Basic sleeve			
6 Splice cassette - large			
12 Holder f. 12 splice protect. tubes			
12 Holder f. 12 sandwich splice prot.			
1 Splice cassette cover			
4 Cable entry sets 9-25mm			
2 Cable entry sets - blank	KM3-LWL-K6G/4K+2BSRH12+SWH12	966059350	1
Universal Plastic Sleeve KM3, Individual Assembly, LWL...			
Basic sleeve	LWL-KM3/GM/M	966059399	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover	LWL-SKA/121/M	760001253	1
Cable entry set 9-25mm	LWL-KM3/KES/9-25/M	760059301	1
Cable entry set - blank	LWL-KM3/KES/B/M	760059302	1
Accessories for KM3 Universal Plastic Sleeves, LWL-.. and DNW-..			
Cable entry set 9-25mm	LWL-KM3/KES/9-25	761281855	1
Cable entry set - blank	LWL-KM3/KES/B	761281890	1
Wall mounting set	LWL-UKM/WM	966076203	1
Splice cassette - large	DNW-SK/121	237475	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1

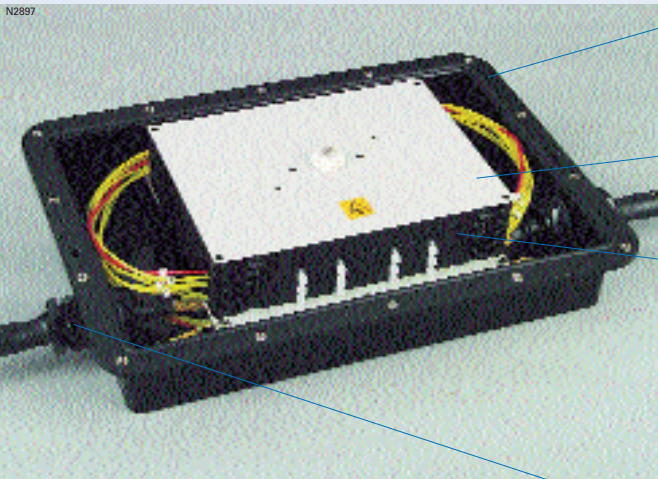
Fibre Optic Enclosures

Universal Plastic Sleeve OM1, Individual Assembly, LWL-...

Ordering Guide

Technical Specifications page 99.

N2897



Basic sleeves

LWL-OM1/GM/M
LWL-OM1/1/GM/M
LWL-OM1/2/GM/M

Splice cassette cover

...-SKA/121..
Max. 1 unit

Splice cassettes

Max. 5 units with LWL-OM1/GM/M
Max. 8 units with LWL-OM1/1/GM/M
Max. 13 units with LWL-OM1/2/GM/M
Splice cassette - large, ...-SK/121..
Splice protection holder (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink., ...-SRH8..
Splice protection holder for 12 x heat-shrink., ...-SRH12..
Splice protection holder for 12 x sandwich, ...-SWH12..

Heat-shrinkable cable entries/blanking plugs

Max. 8 units 3-16 mm (4 units each side) with LWL-OM1/GM/M
Max. 8 units 3-16 mm (4 units each side) or
Max. 6 units 6-22 mm (3 units each side) or
Max. 2 oval cable entries (1 on each side)
with LWL-OM1/1/GM/M and LWL-OM1/2/GM/M

Left

Cable entry 3-16 mm LWL-OM/KDF/S/3/16/LM
Cable entry 6-22 mm LWL-OM/KDF/S/6/22/LM
Blanking plug 16 mm LWL-OM/BV/S/16/LM
Blanking plug 22 mm LWL-OM/BV/S/22/LM
Oval cable entry 10-25 mm LWL-OM/OVE/2/25/LM

Right

Cable entry 3-16 mm LWL-OM/KDF/S/3/16/RM
Cable entry 6-22 mm LWL-OM/KDF/S/6/22/RM
Blanking plug 16 mm LWL-OM/BV/S/16/RM
Blanking plug 22 mm LWL-OM/BV/S/22/RM
Oval cable entry 10-25 mm LWL-OM/OVE/2/25/RM

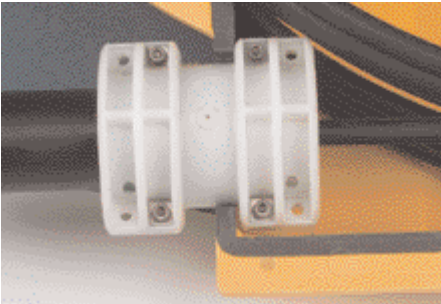
Fibre Optic Enclosures

N2797



Version	Type Designation	Article No.	Units per Package
Universal Plastic Sleeve OM1, Individual Assembly, LWL...			
Basic sleeve OM1	LWL-OM1/GM/M	966065001	1
Basic sleeve OM1/1	LWL-OM1/1/GM/M	966065002	1
Basic sleeve OM1/2	LWL-OM1/2/GM/M	966065003	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover	LWL-SKA/121/M	760001253	1
Cable entry, heat-shrink., 16mm, left	LWL-OM/KDF/S/3/16/LM	760001801	1
Cable entry, heat-shrink., 16mm, right	LWL-OM/KDF/S/3/16/RM	760001802	1
Cable entry, heat-shrink., 22mm, left	LWL-OM/KDF/S/6/22/LM	760001803	1
Cable entry, heat-shrink., 22mm, right	LWL-OM/KDF/S/6/22/RM	760001804	1
Blanking plug, heat-shrink., 16mm, left	LWL-OM/BV/S/16/LM	760001805	1
Blanking plug, heat-shrink., 16mm, right	LWL-OM/BV/S/16/RM	760001806	1
Blanking plug, heat-shrink., 22mm, left	LWL-OM/BV/S/22/LM	760001807	1
Blanking plug, heat-shrink., 22mm, right	LWL-OM/BV/S/22/RM	760001808	1
Oval cable entry - left	LWL-OM/OVE/2/25/LM	760001809	1
Oval cable entry - right	LWL-OM/OVE/2/25/RM	760001810	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Accessories for OM1 Universal Plastic Sleeves, LWL.. and DNW-..			
Cable entry, heat-shrink., 16mm	LWL-KDF/S/3/16	760060115	1
Cable entry, heat-shrink., 22mm	LWL-KDF/S/6/22	760060118	1
Blanking plug, heat-shrink., 16mm	LWL-BV/S/16	760060116	1
Blanking plug, heat-shrink., 22mm	LWL-BV/S/22	760060119	1
Oval cable entry	LWL-OVE/2/25	760275601	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Wall mounting set	LWL-UKM/WM	966076203	1
Splice cassette - large	DNW-SK/121	237475	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder -12 sandwich splice protect.	DNW-SWH12	237477	1

Fibre Optic Enclosures

	Protective Sleeves			
Technical Specifications page 100.	Version	Type Designation	Article No.	Units per Package
N6197 	Protective Sleeves SM/2F..+2B			
	2x Tube ø 50mm/ 2x Cable ø 10-20mm	SM/2F50+2B	966061000	1
	2x Tube ø 40mm/ 2x Cable ø 10-20mm	SM/2F40+2B	966061003	1
N6397 	Accessories for Protective Sleeves, LWL-UF1/R./KU/00			
	Universal end fitting Tube ø 50mm, cable ø 10-20mm	LWL-UF1/R5/KU/00	966287001	1
	Universal end fitting Tube ø 40mm, cable ø 10-20mm	LWL-UF1/R4/KU/00	966287002	1
	Double strain relief cone		760611000	1

Notes

Notes

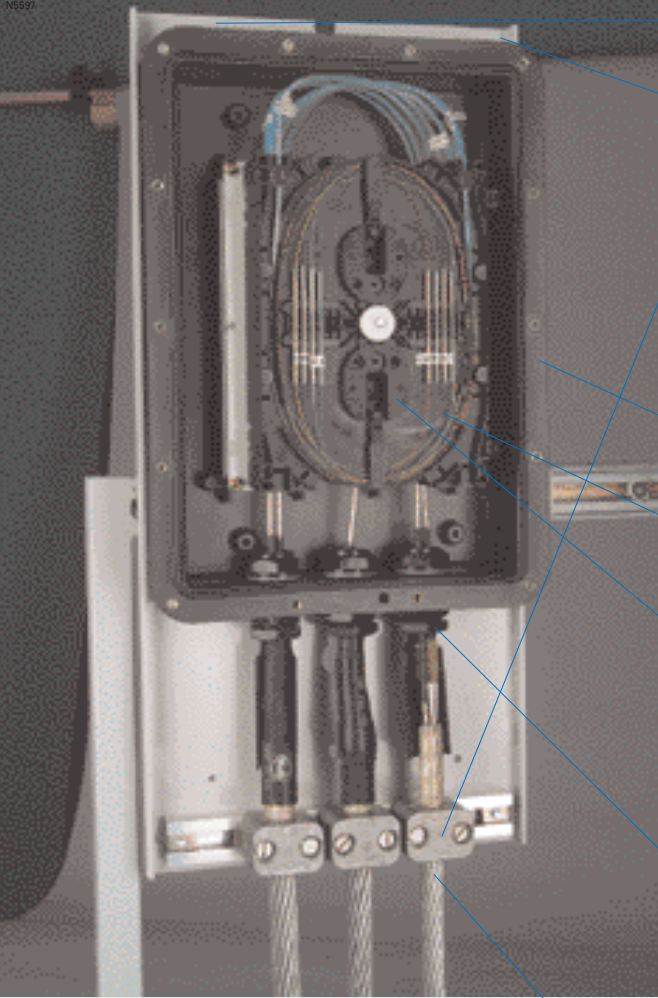
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Fibre Optic Enclosures

Metal Dome Enclosures for Optical Ground Wires with Integrated Fibre

Dome Enclosure OM-HM, Individual Assembly, LWL...

Ordering Guide Technical Specifications page 101.



Basic enclosure LWL-HM/OM1../Z/GG/M
Mounting sets Wall mounting set, LWL-HM/WM/M Steel tower mounting set, LWL-HM/SM/M Round pole mounting set, LWL-HM/RM/M Corner post mounting set, LWL-HM/EK/O../M Max. 1 unit
Aluminium clamps Max. 4 units with LWL-HM/OM1../1Z/GG/M Max. 8 units with LWL-HM/OM1../2Z/GG/M LWL-AS/M..
Basic sleeves LWL-OM1/GM/M LWL-OM1/1/GM/M
Splice cassette cover ...SKA/121.. Max. 1 unit
Splice cassettes Max. 5 units with LWL-OM1/GM/M Max. 8 units with LWL-OM1/1/GM/M Splice cassette - large, ...SK/121.. Splice protection holder (max. 2 units per splice cassette) Splice protection holder for 8 x heat-shrink., ...SRH8.. Splice protection holder for 12 x heat-shrink., ...SRH12.. Splice protection holder for 12 x sandwich, ...SWH12..
Heat-shrinkable cable entries/Blanking plugs Max. 4 units 3-16 mm with LWL-OM1/GM/M Max. 4 units 3-16 mm or Max. 3 units 6-22 mm with LWL-OM1/1/GM/M
Left Cable entry 3-16 mm LWL-OM/KDF/S/3/16/LM Cable entry 6-22 mm LWL-OM/KDF/S/6/22/LM Blanking plug 16 mm LWL-OM/BV/S/16/LM Blanking plug 22 mm LWL-OM/BV/S/22/LM
Entry set for optical ground wires 1 unit for each optical ground wire to be inserted LWL-HM/ES/LES...

Fibre Optic Enclosures

N5497



Version	Type Designation	Article No.	Units per Package
Dome Enclosure OM-HM, Individual Assembly, LWL-...			
Basic enclosure OM1-HM single	LWL-HM/OM1/1Z/GG/M	966269201	1
Basic enclosure OM1-HM double	LWL-HM/OM1/2Z/GG/M	966269202	1
Basic enclosure OM1/1-HM single	LWL-HM/OM1/1/1Z/GG/M	966269203	1
Basic enclosure OM1/1-HM double	LWL-HM/OM1/1/2Z/GG/M	966269204	1
Wall mounting set	LWL-HM/WM/M	760273701	1
Steel tower mounting set	LWL-HM/SM/M	760273702	1
Round pole mounting set	LWL-HM/RM/M	760273703	1
Corner post mounting set - small	LWL-HM/EK/01/M	760273704	1
Corner post mounting set - large	LWL-HM/EK/02/M	760273705	1
Aluminium clamp M8	LWL-AS/M8/M	761061301	1
Aluminium clamp M10	LWL-AS/M10/M	761061302	1
Aluminium clamp M12	LWL-AS/M12/M	761061303	1
Aluminium clamp M14	LWL-AS/M14/M	761061304	1
Aluminium clamp M16	LWL-AS/M16/M	761061306	1
Aluminium clamp M18	LWL-AS/M18/M	761061307	1
Aluminium clamp M20	LWL-AS/M20/M	761061308	1
Aluminium clamp M22	LWL-AS/M22/M	761061309	1
Aluminium clamp M25	LWL-AS/M25/M	761061310	1
Basic sleeve OM1	LWL-OM1/GM/M	966065001	1
Basic sleeve OM1/1	LWL-OM1/1/GM/M	966065002	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover	LWL-SKA/121/M	760001253	1
Cable entry, heat-shrink., 16mm, left	LWL-OM/KDF/S/3/16/LM	760001801	1
Cable entry, heat-shrink., 22mm, left	LWL-OM/KDF/S/6/22/LM	760001803	1
Blanking plug, heat-shrink., 16mm, left	LWL-OM/BV/S/16/LM	760001805	1
Blanking plug, heat-shrink., 22mm, left	LWL-OM/BV/S/22/LM	760001807	1
OPGW entry set	LWL-HM/ES/LES/M	760268021	1
Accessories for OM-HM Dome Enclosures, LWL-.. and DNW-..			
Anti-insect seal		966351001	1
M 8.0 Alumin. clamp size 1a	LWL-AS/M8	966061301	1
M 10.0 Alumin. clamp size 1a	LWL-AS/M10	966061302	1
M 12.0 Alumin. clamp size 1a	LWL-AS/M12	966061303	1
M 14.0 Alumin. clamp size 2	LWL-AS/M14	966061304	1
M 16.0 Alumin. clamp size 2	LWL-AS/M16	966061306	1
M 18.0 Alumin. clamp size 2	LWL-AS/M18	966061307	1
M 20.0 Alumin. clamp size 3	LWL-AS/M20	966061308	1
M 22.0 Alumin. clamp size 3	LWL-AS/M22	966061309	1
M 25.0 Alumin. clamp size 3	LWL-AS/M25	966061310	1
Cable entry, heat-shrink., 16mm	LWL-KDF/S/3/16	760060115	1
Cable entry, heat-shrink., 22mm	LWL-KDF/S/6/22	760060118	1
Blanking plug, heat-shrink., 16mm	LWL-BV/S/16	760060116	1
Blanking plug, heat-shrink., 22mm	LWL-BV/S/22	760060119	1
Splice cassette - large	DNW-SK/121	237475	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
OPGW entry set	LWL-HM/ES/LES	760268018	1

Fibre Optic Enclosures

Technical Specifications page 103.

N7897



N1498



Wire and Cable Storage Frames

Version	Type Designation	Article No.	Units per Package
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Wire and Cable Storage Frames LWL-SSP/..

Outer loop, 880mm	LWL-SSP/88	966286001	1
Inner loop, 880mm	LWL-SSP/88/A	966286002	1
Inner loop, split, 880mm	LWL-SSP/88/A/GET	966286092	1
Inner loop, 1130mm	LWL-SSP/113/A	966286102	1
Outer loop without C-rail, 880mm	LWL-SSP/88/OS	966286003	1
Inner loop without C-rail, 880mm	LWL-SSP/88/A/OS	966286004	1
Inner loop without C-rail, 1130mm	LWL-SSP/113/A/OS	966286104	1

Accessories for Wire and Cable Storage Frames, NWS-K/AC..

Cable clip ø 50mm	NWS-K/AC/52	255202	1
Cable clip ø 40mm	NWS-K/AC/40	255201	1

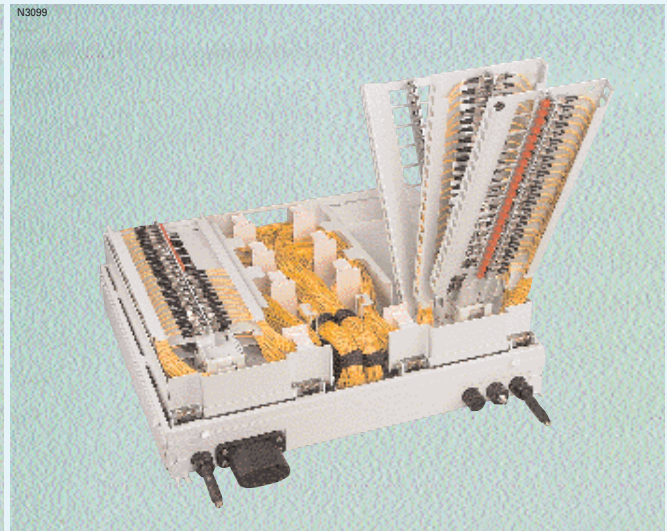
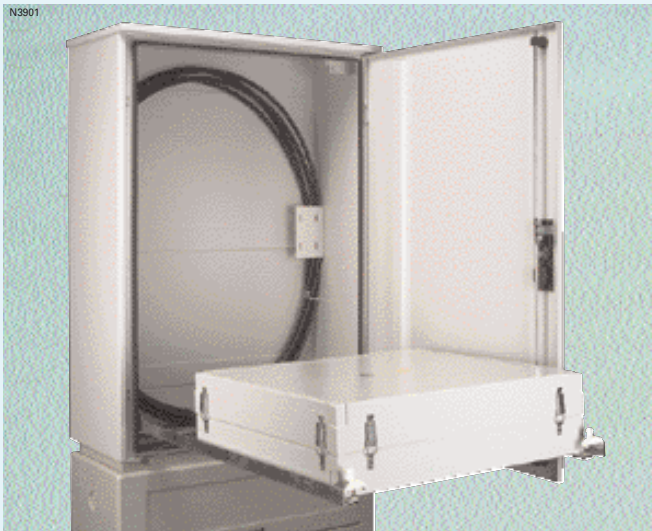
Table of Contents
Interconnect Enclosures and Distribution Cabinets

Interconnect Enclosures	Page 30
Interconnect Enclosure RGV20	Page 32
Interconnect Enclosure RGV20TL	Page 34
Interconnect Enclosure RGV30	Page 36
Interconnect Enclosure RGV30TL	Page 38
Distribution Cabinet	Page 40
Plastic Distribution Cabinet for Base Mounting, VK1-SO-K-SH/00	Page 40
Interconnect Enclosures	Page 41
Interconnect Enclosure RGH6455 144...	Page 41
Interconnect Enclosure - Tubeless System (TL)	Page 42
Interconnect Enclosure RGH6455 TL	Page 42

Technical Specifications as of page 104.

Interconnect Enclosures and Distribution Cabinets

Interconnect cases and distribution cabinets allow for direct splicing and patching. Inside the case, permanent connections and branch-offs as well as continuously variable interconnections of optical fibres are established. In most cases easy access for patching or interconnecting is guaranteed through lock-able distribution cabinets. Both interconnect cases and distribution cabinets are suitable for outdoor installation. All materials used are resistant to environmental effects (non-corrosive and UV-resistant, low water vapour permeation, metal components either powder-coated, galvanized or of high-grade steel). The special design guarantees quick and easy installation. Provided the specified degree of protection is respected, trouble-free operation is guaranteed for decades.



Notes

Notes

This image shows a full page of blank graph paper. The background is a solid light blue color. Overlaid on this background is a precise grid of thin, dark gray horizontal and vertical lines. These lines intersect to form a series of small, identical squares that cover the entire area of the page, leaving no margins or other markings.

Interconnect Enclosures and Distribution Cabinets

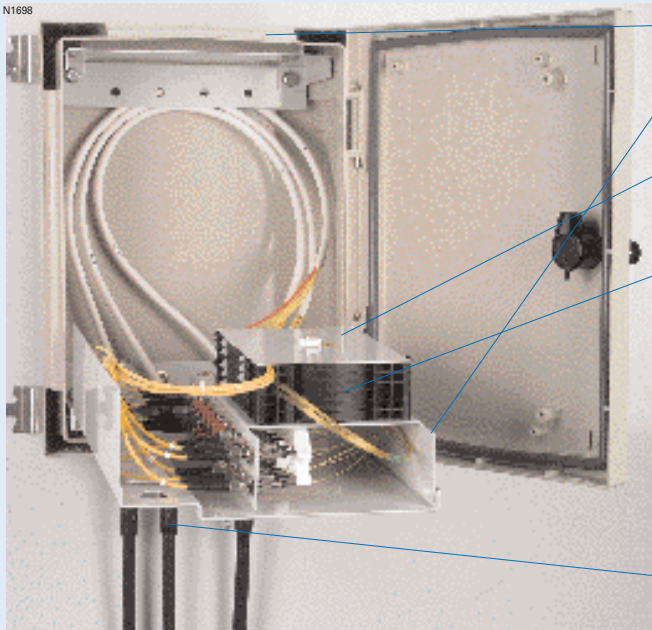
Interconnect Enclosures

Interconnect Enclosure RGV20, Individual Assembly, LWL-RGV20...

Ordering Guide

Technical Specifications page 104.

N1698



Basic Enclosure

LWL-RGV20/GG/M

Patch drawers (max. 1 unit)

Patch drawer set LWL-RGV20/PL/24.../M

Splice cassette cover

...-SKA/121...

Max. 1 unit

Splice cassettes

Splice cassette - large

Max. 6 units

Splice cassette - large, ...-SK/121..

Splice protection holder (max. 2 units per splice cassette)

Splice protection holder for 8 x heat-shrink., ...-SRH8..

Splice protection holder for 12 x heat-shrink., ...-SRH12..

Splice protection holder for 12 x sandwich, ...-SWH12..

Strain relief plate for fastening cable pigtails for SK121 (max. 1 unit per splice cassette), LWL-SK/121/AP..

Cable entries

Are being assembled individually on customers request

Heat-shrinkable cable entries

Cable entry, heat-shrink., 16mm, LWL-KDF/S/3/16..

Cable entry, heat-shrink., 22mm, LWL-KDF/S/6/22..

Blanking plug, heat-shrink., 16mm, LWL-BV/S/16..

Blanking plug, heat-shrink., 22mm, LWL-BV/S/22..

uncut entry

Oval cable entry, LWL-OVE/2/25..

Oval cable entry set, LWL-SEC/KES/OVAL..

PG Cable glands

Cable entry set PG11, LWL-KDF/PG11..

Cable entry set PG13, LWL-KDF/PG13..

Cable entry set PG16, LWL-KDF/PG16..

Cable entry set PG21, LWL-KDF/PG21..

Patch cord outlet gland PG29, LWL-KDF/PG29/24x3..

Blanking plug PG11, LWL-BV/PG11..

Blanking plug PG13, LWL-BV/PG13..

Blanking plug PG16, LWL-BV/PG16..

Blanking plug PG21, LWL-BV/PG21..

Interconnect Enclosures and Distribution Cabinets

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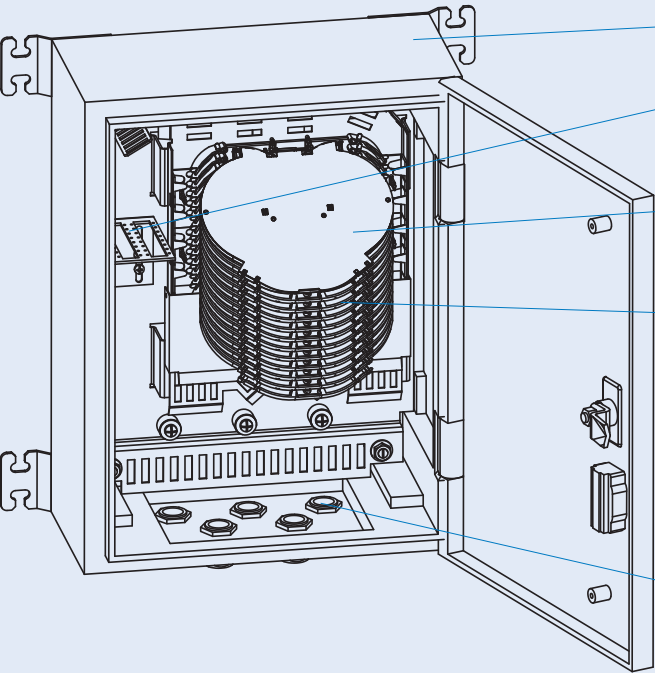
Version	Type Designation	Article No.	Units per Package
Interconnect Enclosure RGV20, Individual Assembly, LWL-...			
Basic enclosure	LWL-RGV20/GG/M	966356099	1
Patch drawer set FC/PC	LWL-RGV20/PL/24FCF/M	760356001	1
Patch drawer set ST	LWL-RGV20/PL/24ST/M	760356002	1
Patch drawer set SC/E2000	LWL-RGV20/PL/24SC/M	760356003	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Strain relief plate f. cable pigtail fasten. SK 121	LWL-SK/121/AP/M	760001351	1
Cable entry, heat-shrink., 16mm	LWL-KDF/S/3/16/M	760000552	1
Cable entry, heat-shrink., 22mm	LWL-KDF/S/6/22/M	760000553	1
Oval cable entry	LWL-OVE/2/25/M	760000555	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Cable entry set PG11	LWL-KDF/PG11/M	760000753	1
Cable entry set PG13	LWL-KDF/PG13/M	760000754	1
Cable entry set PG16	LWL-KDF/PG16/M	760000755	1
Cable entry set PG21	LWL-KDF/PG21/M	760000756	1
Patch cord outlet gland PG29	LWL-KDF/PG29/24x3/M	760920432	1
Blanking plug, heat-shrink., 16mm	LWL-BV/S/16/M	760000652	1
Blanking plug, heat-shrink., 22mm	LWL-BV/S/22/M	760000653	1
Blanking plug PG11	LWL-BV/PG11/M	760000853	1
Blanking plug PG13	LWL-BV/PG13/M	760000854	1
Blanking plug PG16	LWL-BV/PG16/M	760000855	1
Blanking plug PG21	LWL-BV/PG21/M	760000856	1
Accessories for RGV20 Interconnect Enclosures, LWL-... and DNW-...			
4 Fastening brackets	ISV-OPV-BL	276230	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1
Strain relief plate f.cable pigtail fasten. SK121	LWL-SK/121/AP	160276350	1
Cable entry, heat-shrink., 16mm	LWL-KDF/S/3/16	760060115	1
Cable entry, heat-shrink., 22mm	LWL-KDF/S/6/22	760060118	1
Oval cable entry	LWL-OVE/2/25	760275601	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Cable entry set PG11	LWL-KDF/PG11	760000703	1
Cable entry set PG13	LWL-KDF/PG13	760000704	1
Cable entry set PG16	LWL-KDF/PG16	760000705	1
Cable entry set PG21	LWL-KDF/PG21	760000706	1
Patch cord outlet gland PG29	LWL-KDF/PG29/24x3	760920431	1
Blanking plug, heat-shrink., 16mm	LWL-BV/S/16	760060116	1
Blanking plug, heat-shrink., 22mm	LWL-BV/S/22	760060119	1
Blanking plug PG11	LWL-BV/PG11	760000803	1
Blanking plug PG13	LWL-BV/PG13	760000804	1
Blanking plug PG16	LWL-BV/PG16	760000805	1
Blanking plug PG21	LWL-BV/PG21	760000806	1

Interconnect Enclosures and Distribution Cabinets

Interconnect Enclosure RGV20 TL, Individual Assembly, LWL-RGV20...

Ordering Guide

Technical Specifications page 105



Basic enclosure
LWL-RGV20/TL/GG/M

Patch angle
LWL-RGV20/TL/PW/...
Max. 1 unit

Splice cassette cover
LWL-SKAX23/M
Max. 1 unit

Splice cassette set
12 Splice cassettes are equivalent to max. 2 sets

SE Single Element
Splice cassette set for 6x16 heat-shrink., LWL-SEC23/TL/KS/6SK123/SR/M
Splice cassette set for 6x12 sandwich, LWL-SEC23/TL/KS/6SK123/SW/M

SC Single Circuit
Splice cassette set for 6x2x4 heat-shrink., LWL-SEC23/TL/KS/6SK223/SR/M
Splice cassette set for 6x2x6 sandwich, LWL-SEC23/TL/KS/6SK223/SW/M

Cable entries
Are being assembled individually on customers request

Heat-shrinkable cable entries
Cable entry, heat-shrink., 16mm, LWL-KDF/S/3/16..
Cable entry, heat-shrink., 22mm, LWL-KDF/S/6/22..
Blanking plug, heat-shrink., 16mm, LWL-BV/S/16..
Blanking plug, heat-shrink., 22mm, LWL-BV/S/22..
Uncut cable entry
Ovale cable entry, LWL-OVE/2/25..
Oval cable entry set, LWL-SEC/KES/OVAL..

PG Cable glands
Cable entry set PG11, LWL-KDF/PG11..
Cable entry set PG13, LWL-KDF/PG13..
Cable entry set PG16, LWL-KDF/PG16..
Cable entry set PG21, LWL-KDF/PG21..
Patch cord outlet gland PG29, LWL-KDF/PG29/24x3..
Blanking plug PG11, LWL-BV/PG11..
Blanking plug PG13, LWL-BV/PG13..
Blanking plug PG16, LWL-BV/PG16..
Blanking plug PG21, LWL-BV/PG21..

Interconnect Enclosures and Distribution Cabinets

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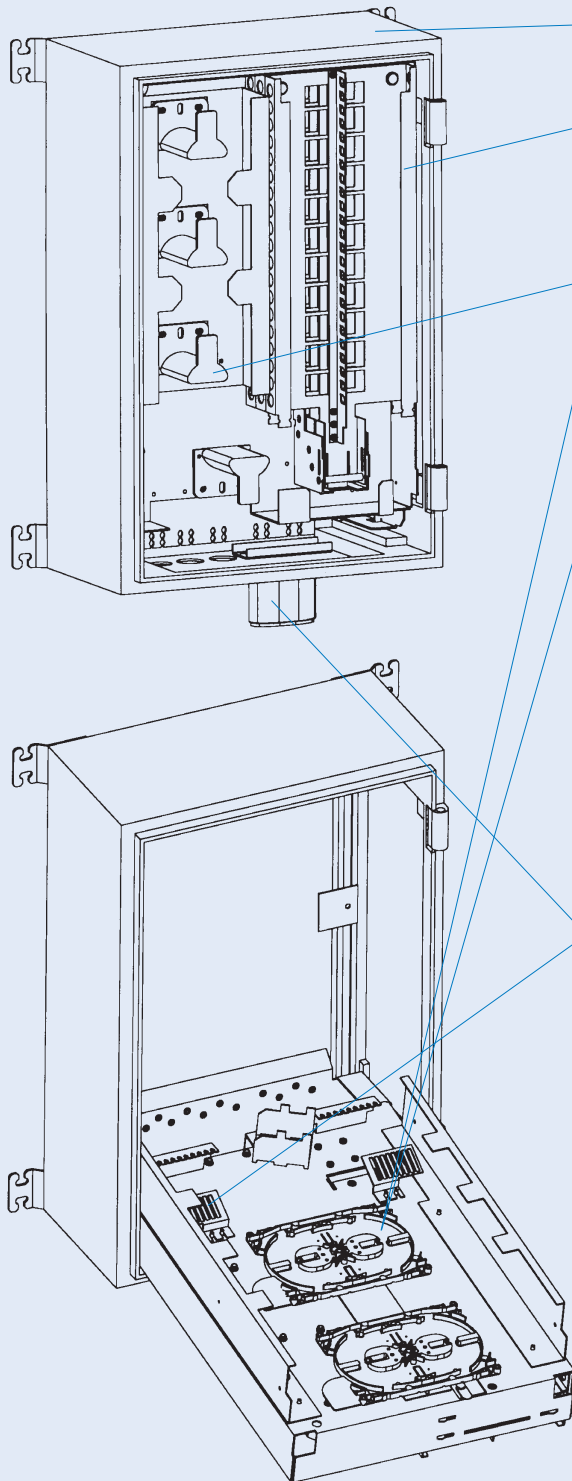
Version	Type Designation	Article No.	Units per Package
Interconnect Enclosure RGV20 TL, Individual Assembly, LWL-...			
Basic enclosure	LWL-RGV20/TL/GG/M	966356050	1
Patch angle 12x FC/PC	LWL-RGV20/TL/PW/12FC/M	760356061	1
Patch angle 12x ST	LWL-RGV20/TL/PW/12ST/M	760356062	1
Patch angle 12x SC simplex	LWL-RGV20/TL/PW/12SC/M	760356063	1
Patch angle 24x SC simplex	LWL-RGV20/TL/PW/24SC/M	760356064	1
Splice cassette set 6xSE heat-shrink.	LWL-SEC23/TL/KS/6SK123/SR/M	760442002	1
Splice cassette set 6xSE sandwich	LWL-SEC23/TL/KS/6SK123/SW/M	760442003	1
Splice cassette set 6xSC heat-shrink.	LWL-SEC23/TL/KS/6SK223/SR/M	760442004	1
Splice cassette set 6xSC sandwich	LWL-SEC23/TL/KS/6SK223/SW/M	760442005	1
Splice cassette cover	LWL-SKAX23/M	760001251	1
Cable entry, heat-shrink., 16mm	LWL-KDF/S/3/16/M	760000552	1
Cable entry, heat-shrink., 22mm	LWL-KDF/S/6/22/M	760000553	1
Oval cable entry	LWL-OVE/2/25/M	760000555	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Cable entry set PG11	LWL-KDF/PG11/M	760000753	1
Cable entry set PG13	LWL-KDF/PG13/M	760000754	1
Cable entry set PG16	LWL-KDF/PG16/M	760000755	1
Cable entry set PG21	LWL-KDF/PG21/M	760000756	1
Patch cord outlet gland PG29	LWL-KDF/PG29/24x3/M	760920432	1
Blanking plug, heat-shrink., 16mm	LWL-BV/S/16/M	760000652	1
Blanking plug, heat-shrink., 22mm	LWL-BV/S/22/M	760000653	1
Blanking plug PG11	LWL-BV/PG11/M	760000853	1
Blanking plug PG13	LWL-BV/PG13/M	760000854	1
Blanking plug PG16	LWL-BV/PG16/M	760000855	1
Blanking plug PG21	LWL-BV/PG21/M	760000856	1
Accessories for Interconnect Enclosure RGV20 TL, LWL-... and DNW-...			
Fastening brackets, 4 units	ISV-OPV-BL	276230	1
Splice cassette SE	LWL-SK123	760001001	1
Splice cassette SC heat-shrink.	LWL-SK223/SR	760001002	1
Splice cassette SC sandwich	LWL-SK223/SW	760001003	1
Splice cassette cover	LWL-SKAX23	760001201	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder-12 sandwich splice prot.	DNW-SWH12	237477	1
Cable entry, heat-shrink., 16mm	LWL-KDF/S/3/16	760060115	1
Cable entry, heat-shrink., 22mm	LWL-KDF/S/6/22	760060118	1
Oval cable entry	LWL-OVE/2/25	760275601	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Cable entry set PG11	LWL-KDF/PG11	760000703	1
Cable entry set PG13	LWL-KDF/PG13	760000704	1
Cable entry set PG16	LWL-KDF/PG16	760000705	1
Cable entry set PG21	LWL-KDF/PG21	760000706	1
Patch cord outlet gland PG29	LWL-KDF/PG29/24x3	760920431	1
Blanking plug, heat-shrink., 16mm	LWL-BV/S/16	760060116	1
Blanking plug, heat-shrink., 22mm	LWL-BV/S/22	760060119	1
Blanking plug PG11	LWL-BV/PG11	760000803	1
Blanking plug PG13	LWL-BV/PG13	760000804	1
Blanking plug PG16	LWL-BV/PG16	760000805	1
Blanking plug PG21	LWL-BV/PG21	760000806	1

Interconnect Enclosures and Distribution Cabinets

RGV30 Interconnect Enclosure, Individual Assembly, LWL-RGV30...

Ordering Guide

Technical Specifications page 106.



Base enclosure
LWL-RGV30/GG/M

Patch drawers (max. 1 unit)
Set of patch drawers LWL-RGV30/PL/72.../M

Splice cassette cover
...-SKA/12...
Max. 2 units

Patchcord guide, semi-circular, 70mm tongue
LWL-PCF/03..
Max. 4 units

Splice cassettes

Splice cassette - small
Max. 36 units
Fastening set for SK120S, LWL-RGV30/BFS/SK120S/M
Splice cassette - small, ...-SK/120/S..
Splice protection holders (max. 2 units per splice cassette)
Splice protection holder for 8x heat-shrinkable, ...-SRH8..
Splice protection holder for 12x sandwich, ...-SWH12..

Splice cassette - large
Max. 14 units
Fastening set for SK121, LWL-RGV30/BFS/SK121/M
Splice cassette - large, ...-SK/121..
Splice protection holders (max. 2 units per splice cassette)
Splice protection holder for 8x heat-shrinkable, ...-SRH8..
Splice protection holder for 12 x heat-shrink, ...-SRH12..
Splice protection holder for 12x sandwich, ...-SWH12..
Strain relief plate for pigtail fastening - SK121 (max. 1 unit per splice cassette), LWL-SK/121/AP..

UFM - Expansion Set (max. 1 unit)
LWL-ES/UFM/6455..

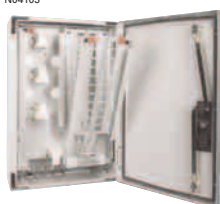
Cable entries
Are being assembled individually on customers request

Heat-shrinkable cable entries
Cable entry - heat-shrinkable, 16mm, LWL-KDF/S/3/16..
Cable entry - heat-shrinkable, 22mm, LWL-KDF/S/6/22..
Blanking plug - heat-shrinkable, 16mm, LWL-BV/S/16..
Blanking plug - heat-shrinkable, 22mm, LWL-BV/S/22..
Uncut cable entry
Oval cable entry, LWL-OVE/2/25..
Oval cable entry set, LWL-SEC/KES/OVAL..

PG Cable Glands
Cable entry set PG11, LWL-KDF/PG11..
Cable entry set PG13, LWL-KDF/PG13..
Cable entry set PG16, LWL-KDF/PG16..
Cable entry set PG21, LWL-KDF/PG21..
Patch cord outlet gland PG29, LWL-KDF/PG29/24x3..
Blanking plug PG11, LWL-BV/PG11..
Blanking plug PG13, LWL-BV/PG13..
Blanking plug PG16, LWL-BV/PG16..
Blanking plug PG21, LWL-BV/PG21..

Interconnect Enclosures and Distribution Cabinets

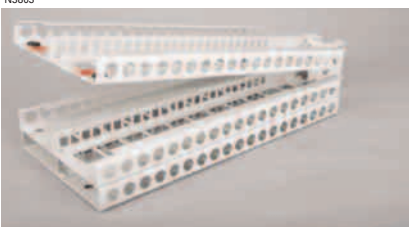
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N04203



N3803



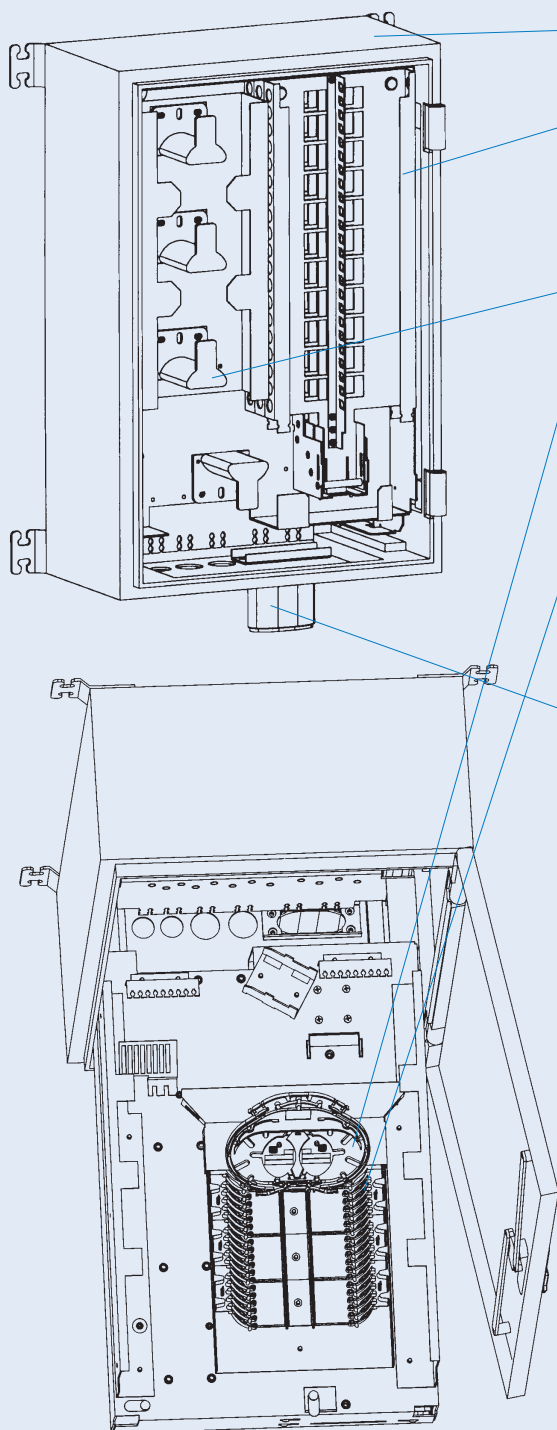
Version	Type Designation	Article No.	Units per Package
Interconnect Enclosure RGV30, Individual Assembly, LWL-...			
Base enclosure	LWL-RGV30/GG/M	966357000	1
Patch drawer set FC/PC	LWL-RGV30/PL/72FCF/M	760357001	1
Patch drawer set ST	LWL-RGV30/PL/72ST/M	760357002	1
Patch drawer set SC/E2000	LWL-RGV30/PL/72SC/M	760357003	1
Patchcord guide, semi-circ., 70mm tongue	LWL-PCF/03/M	760001753	1
Fastening set for SK120S	LWL-RGV30/BFS/SK120S/M	760357005	1
Fastening set for SK121	LWL-RGV30/BFS/SK121/M	760357006	1
Splice cassette - small	LWL-SK/120/S/M	760001054	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protection tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protection tubes	LWL-SRH12/M	760001153	1
Holder - 12 sandwich splice protectors	LWL-SWH12/M	760001152	1
Splice cassette cover for SK120S	LWL-SKA/120/M	760001252	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Strain relief plate f. pigtail fastening - SK121	LWL-SK/121/AP/M	760001351	1
UFM - Expansion set	LWL-ES/UFM/6455/M	760412004	1
Cable entry - heat-shrink. 16mm	LWL-KDF/S/3/16/M	760000552	1
Cable entry - heat-shrink. 22mm	LWL-KDF/S/6/22/M	760000553	1
Oval cable entry	LWL-OVE/2/25/M	760000555	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Cable entry set PG11	LWL-KDF/PG11/M	760000753	1
Cable entry set PG13	LWL-KDF/PG13/M	760000754	1
Cable entry set PG16	LWL-KDF/PG16/M	760000755	1
Cable entry set PG21	LWL-KDF/PG21/M	760000756	1
Patch cord outlet gland PG29	LWL-KDF/PG29/24x3/M	760920432	1
Blanking plug - heat-shrink. 16mm	LWL-BV/S/16/M	760000652	1
Blanking plug - heat-shrink. 22mm	LWL-BV/S/22/M	760000653	1
Blanking plug PG11	LWL-BV/PG11/M	760000853	1
Blanking plug PG13	LWL-BV/PG13/M	760000854	1
Blanking plug PG16	LWL-BV/PG16/M	760000855	1
Blanking plug PG21	LWL-BV/PG21/M	760000856	1
Accessories for RGV30 Interconnect Enclosures, LWL-... and DNW-...			
Fastening brackets, 4 units	ISV-OPV-BL	276230	1
Steel tower mounting set	LWL-RGV30/SMB	966061050	1
Strain relief set	LWL-RGV30/ZEL	966060950	1
Rain run-off roof	LWL-RGV30/RD	966061150	1
Patchcord guide, semi-circ., 70mm tongue	LWL-PCF/03	760001703	1
Splice cassette - small	DNW-SK/120/S	237473	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protection tubes	DNW-SRH8	237476	1
Holder - 12 splice protection tubes	DNW-SRH12	118970	1
Holder - 12 sandwich splice protectors	DNW-SWH12	237477	1
Splice cassette cover for SK120S	DNW-SKA/120	237480	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1
Strain relief plate f. pigtail fastening - SK121	LWL-SK/121/AP	160276350	1
UFM - Expansion set	LWL-ES/UFM/6455	760412003	1
Cable entry - heat-shrink. 16mm	LWL-KDF/S/3/16	760060115	1
Cable entry - heat-shrink. 22mm	LWL-KDF/S/6/22	760060118	1
Oval cable entry	LWL-OVE/2/25	760275601	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Cable entry set PG11	LWL-KDF/PG11	760000703	1
Cable entry set PG13	LWL-KDF/PG13	760000704	1
Cable entry set PG16	LWL-KDF/PG16	760000705	1
Cable entry set PG21	LWL-KDF/PG21	760000706	1
Patch cord outlet gland PG29	LWL-KDF/PG29/24x3	760920431	1
Blanking plug - heat-shrink. 16mm	LWL-BV/S/16	760060116	1
Blanking plug - heat-shrink. 22mm	LWL-BV/S/22	760060119	1
Blanking plug PG11	LWL-BV/PG11	760000803	1
Blanking plug PG13	LWL-BV/PG13	760000804	1
Blanking plug PG16	LWL-BV/PG16	760000805	1
Blanking plug PG21	LWL-BV/PG21	760000806	1

Interconnect Enclosures and Distribution Cabinets

Interconnect Enclosure RGV30TL, Individual Assembly, LWL-RGV30...

Ordering Guide

Technical Specifications page 107



Basic enclosure
LWL-RGV30/GG/M

Patch drawers (max. 1 unit)
Patch drawer set LWL-RGV30/PL/72.../M

Splice cassette cover
LWL-SKAX23..
Max. 1 unit

Patch cord guide, semi-circular, 70mm tongue
LWL-PCF/03..
Max. 4 units

Splice cassettes
Fastening set for the tubeless system (max. 1 unit)
LWL-RGV30/BFS/TL/M

Splice cassette set
24 Splice cassettes are equivalent to max. 4 sets

SE Single Element
Splice cassette set for 6x16 heat-shrink., LWL-SEC23/TL/KS/6SK123/SR/M
Splice cassette set for 6x12 sandwich, LWL-SEC23/TL/KS/6SK123/SW/M

SC Single Circuit
Splice cassette set for 6x2x4 heat-shrink., LWL-SEC23/TL/KS/6SK223/SR/M
Splice cassette set for 6x2x6 sandwich, LWL-SEC23/TL/KS/6SK223/SW/M

Cable entries
Are being assembled individually on customers request

Heat-shrinkable cable entries
Cable entry, heat-shrink., 16mm, LWL-KDF/S/3/16..
Cable entry, heat-shrink., 22mm, LWL-KDF/S/6/22..
Blanking plug, heat-shrink., 16mm, LWL-BV/S/16..
Blanking plug, heat-shrink., 22mm, LWL-BV/S/22..
Uncut cable entry
Ovale cable entry, LWL-OVE/2/25..
Oval cable entry set, LWL-SEC/KES/OVAL..

PG Cable glands
Cable entry set PG11, LWL-KDF/PG11..
Cable entry set PG13, LWL-KDF/PG13..
Cable entry set PG16, LWL-KDF/PG16..
Cable entry set PG21, LWL-KDF/PG21..
Patch cord outlet gland PG29, LWL-KDF/PG29/24x3..
Blanking plug PG11, LWL-BV/PG11..
Blanking plug PG13, LWL-BV/PG13..
Blanking plug PG16, LWL-BV/PG16..
Blanking plug PG21, LWL-BV/PG21..

Interconnect Enclosures and Distribution Cabinets

N04103



N08003



N3803



Version	Type Designation	Article No.	Units per Package
Interconnect Enclosure RGV30 TL, Individual Assembly, LWL-...			
Basic enclosure	LWL-RGV30/GG/M	966357000	1
Patch drawer set FC/PC	LWL-RGV30/PL/72FCF/M	760357001	1
Patch drawer set ST	LWL-RGV30/PL/72ST/M	760357002	1
Patch drawer set SC/E2000	LWL-RGV30/PL/72SC/M	760357003	1
Patch cord guide, semi-circ., 70mm tongue	LWL-PCF/03/M	760001753	1
Fastening set f. tubeless system	LWL-RGV30/BFS/TL/M	966357050	1
Splice cassette set 6xSE heat-shrink.	LWL-SEC23/TL/KS/6SK123/SR/M	760442002	1
Splice cassette set 6xSE sandwich	LWL-SEC23/TL/KS/6SK123/SW/M	760442003	1
Splice cassette set 6xSC heat-shrink.	LWL-SEC23/TL/KS/6SK223/SR/M	760442004	1
Splice cassette set 6xSC sandwich	LWL-SEC23/TL/KS/6SK223/SW/M	760442005	1
Splice cassette cover	LWL-SKAX23/M	760001251	1
Cable entry, heat-shrink., 16mm	LWL-KDF/S/3/16/M	760000552	1
Cable entry, heat-shrink., 22mm	LWL-KDF/S/6/22/M	760000553	1
Oval cable entry	LWL-OVE/2/25/M	760000555	1
Oval cable entry set	LWL-SEC/KES/OVAL/M	760000953	1
Cable entry set PG11	LWL-KDF/PG11/M	760000753	1
Cable entry set PG13	LWL-KDF/PG13/M	760000754	1
Cable entry set PG16	LWL-KDF/PG16/M	760000755	1
Cable entry set PG21	LWL-KDF/PG21/M	760000756	1
Patch cord outlet gland PG29	LWL-KDF/PG29/24x3/M	760920432	1
Blanking plug, heat-shrink., 16mm	LWL-BV/S/16/M	760000652	1
Blanking plug, heat-shrink., 22mm	LWL-BV/S/22/M	760000653	1
Blanking plug PG11	LWL-BV/PG11/M	760000853	1
Blanking plug PG13	LWL-BV/PG13/M	760000854	1
Blanking plug PG16	LWL-BV/PG16/M	760000855	1
Blanking plug PG21	LWL-BV/PG21/M	760000856	1
Accessories for Interconnect Enclosure RGV30 TL, LWL-... and DNW-...			
Fastening brackets, 4 units	ISV-OPV-BL	276230	1
Steel tower mounting set	LWL-RGV30/SMB	966061050	1
Strain relief set	LWL-RGV30/ZEL	966060950	1
Rain run-off roof	LWL-RGV30/RD	966061150	1
Patch cord guide, semi-circular, 70mm tongue	LWL-PCF/03	760001703	1
Splice cassette SE	LWL-SK123	760001001	1
Splice cassette SC heat-shrink.	LWL-SK223/SR	760001002	1
Splice cassette SC sandwich	LWL-SK223/SW	760001003	1
Splice cassette cover	LWL-SKAX23	760001201	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder-12 sandwich splice prot.	DNW-SWH12	237477	1
Cable entry, heat-shrink., 16mm	LWL-KDF/S/3/16	760060115	1
Cable entry, heat-shrink., 22mm	LWL-KDF/S/6/22	760060118	1
Oval cable entry	LWL-OVE/2/25	760275601	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Cable entry set PG11	LWL-KDF/PG11	760000703	1
Cable entry set PG13	LWL-KDF/PG13	760000704	1
Cable entry set PG16	LWL-KDF/PG16	760000705	1
Cable entry set PG21	LWL-KDF/PG21	760000706	1
Patch cord outlet gland PG29	LWL-KDF/PG29/24x3	760920431	1
Blanking plug, heat-shrink., 16mm	LWL-BV/S/16	760060116	1
Blanking plug, heat-shrink., 22mm	LWL-BV/S/22	760060119	1
Blanking plug PG11	LWL-BV/PG11	760000803	1
Blanking plug PG13	LWL-BV/PG13	760000804	1
Blanking plug PG16	LWL-BV/PG16	760000805	1
Blanking plug PG21	LWL-BV/PG21	760000806	1

Interconnect Enclosures and Distribution Cabinets

Technical Specifications page 109.

N3299



Distribution Cabinets

Version	Type Designation	Article No.	Units per Package
Plastic Distribution Cabinet for Base Mounting, VK1-SO-K-SH/00			
Plastic distribution cabinet	VK1-SO-K-SH/00	966416000	1

Accessories for Distribution Cabinet VK1-SO

Base		966415900	1
Universal end fitting - tube ø 50mm, cable ø 10-20mm	LWL-UF1/R5/KU/00	966287001	1
Universal end fitting - tube ø 40mm, cable ø 10-20mm	LWL-UF1/R4/KU/00	966287002	1
Tube end closure - tube ø 50mm, cable ø 10-25mm	LWL-RAS/R5/KU/00	966287501	1
Tube end closure - tube ø 40mm, cable ø 10-25mm	LWL-RAS/R4/KU/00	966287521	1
Cable clip ø 50mm	NWS-K/AC52	255202	1
Cable clip ø 40mm	NWS-K/AC40	255201	1
Set of adapter rails - VK1*)	ADPS-SET VK1	761416099	1
Mounting plate for wall-mounting*)	LWL-UKM/WM	966076203	1

N3801



Metal Distribution Cabinet f. Base, Surface and Pole/Tower Mounting, VK1-SO/AP/M-SH/00

Universal distribution cabinet VK1-SO/AP/M-SH/00	966300450	1
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Accessories for Distribution Cabinet VK1-SO/AP/M

Base	KS5/B	966300200	1
Bottom plate f. surface mounting, blank		966308600	1
Bottom plate f. surface mounting, 3P213B21		966308605	1
Bottom plate f. surface mounting, split		966308650	1
Bottom plate f. surface mounting, split, with 1P212B21		966308652	1
Bottom plate f. pole a. tower mounting, blank		966308500	1
Bottom plate f. pole a. tower mounting, 3P213B21		966308505	1
Bottom plate f. pole a. tower mounting, split		966308550	1
Bottom plate f. pole a. tower m., split, with 1P212B21		966308552	1
Mounting rail*)		966300899	1
Mounting plate f. wall-mounting*)	LWL-UKM/WM	966076203	1
Universal end fitting, tube ø 50mm, cable ø 10-20mm	LWL-UF1/R5/KU/00	966287001	1
Universal end fitting, tube ø 40mm, cable ø 10-20mm	LWL-UF1/R4/KU/00	966287002	1
Tube end closure, tube ø 50mm, cable ø 10-25mm	LWL-RAS/R5/KU/00	966287501	1
Tube end closure, tube ø 40mm, cable ø 10-25mm	LWL-RAS/R4/KU/00	966287521	1
Cable clip ø 50mm	NWS-K/AC52	255202	1
Cable clip ø 40mm	NWS-K/AC40	255201	1

*) necessary for the installation of OM1 and KM3 sleeves inside the VK1

Interconnect Enclosures and Distribution Cabinets

		Interconnect Enclosures			
Technical Specifications page 111.		Connector Type/No. of Splice Cassettes	Type Designation	Article No.	Units per Package
		Interconnect Enclosures RGH6455 144...			
		FC/PC	24	RGH6455 144FCF/24K/10VE+4B16	966412001 1
		SC or E2000	24	RGH6455 144E2000/24K/10VE+4B16	966412004 1
		Version/Clamping Range in mm	Type Designation	Article No.	Units per Package
		Accessories for RGH6455 Interconnect Enclosures			
		Cable entry, heatshrink. ø 3-16mm	LWL-KDF/S/3/16	760060115	1
		UFM-Expansion set	LWL-ES/UFM/6455	760412003	1
		M 8.0 Alumin. clamp size 1a 8-10	LWL-AS/M8	966061301	1
		M 10.0 Alumin. clamp size 1a 10-12	LWL-AS/M10	966061302	1
		M 12.0 Alumin. clamp size 1a 12-14	LWL-AS/M12	966061303	1
		M 14.0 Alumin. clamp size 2 14-16	LWL-AS/M14	966061304	1
		M 16.0 Alumin. clamp size 2 16-18	LWL-AS/M16	966061306	1
		M 18.0 Alumin. clamp size 2 18-20	LWL-AS/M18	966061307	1
		M 20.0 Alumin. clamp size 3 20-22	LWL-AS/M20	966061308	1
		M 22.0 Alumin. clamp size 3 22-25	LWL-AS/M22	966061309	1
		M 25.0 Alumin. clamp size 3 25-27	LWL-AS/M25	966061310	1
		K 8.0 Plastic clamp size 1a 8-10		761061351	1
		K 12.0 Plastic clamp size 1a 12-14		761061353	1
		K 14.0 Plastic clamp size 2 14-16		761061354	1
		K 16.0 Plastic clamp size 2 16-18		761061356	1
		K 18.0 Plastic clamp size 2 18-20		761061357	1
		K 20.0 Plastic clamp size 3 20-22		761061358	1
		K 22.0 Plastic clamp size 3 22-25		761061359	1

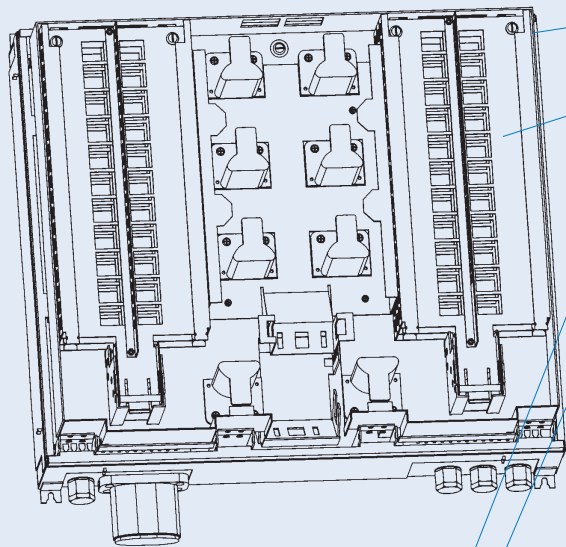
Interconnect Enclosures and Distribution Cabinets

Interconnect Enclosures - Tubeless System (TL)

Interconnect Enclosure RGH6455 TL, Individual Assembly, LWL-RGH6455...

Ordering Guide

Technical Specifications page 112.



Basic enclosure
LWL-RGH6455/TL/GG/M

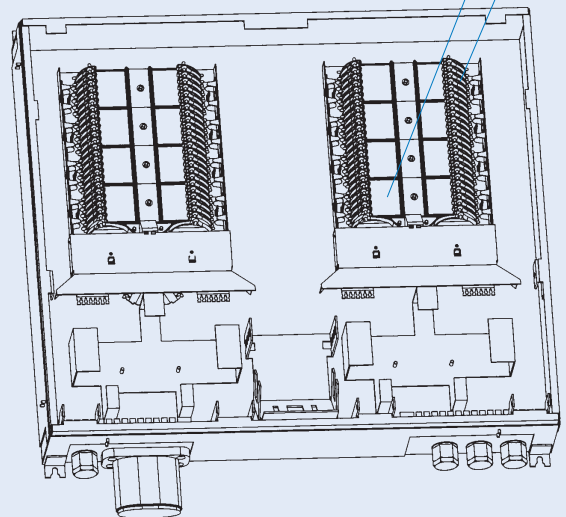
Patch drawers (max. 2 units)
Patch drawer set LWL-RGV30/PL/72.../M

Splice cassette cover
LWL-SKAX23..
Max. 2 units

Splice cassettes
48 Splice cassettes are equivalent to max. 8 sets

SE Single Element
Splice cassette set for 6x16 heat-shrink., LWL-SEC23/TL/KS/6SK123/SR/M
Splice cassette set for 6x12 sandwich, LWL-SEC23/TL/KS/6SK123/SW/M

SC Single Circuit
Splice cassette set for 6x2x4 heat-shrink., LWL-SEC23/TL/KS/6SK223/SR/M
Splice cassette set for 6x2x6 sandwich, LWL-SEC23/TL/KS/6SK223/SW/M



Interconnect Enclosures and Distribution Cabinets

N2899



Version	Type Designation	Article No.	Units per Package
Interconnect Enclosure RGH6455 TL, Individual Assembly, LWL...			
Basic enclosure	LWL-RGH6455/TL/GG/M	966412050	1
Patch drawer set FC/PC	LWL-RGV30/PL/72FCF/M	760357001	1
Patch drawer set ST	LWL-RGV30/PL/72ST/M	760357002	1
Patch drawer set SC/E2000	LWL-RGV30/PL/72SC/M	760357003	1
Splice cassette set 6xSE heat-shrink.	LWL-SEC23/TL/KS/6SK123/SR/M	760442002	1
Splice cassette set 6xSE sandwich	LWL-SEC23/TL/KS/6SK123/SW/M	760442003	1
Splice cassette set 6xSC heat-shrink.	LWL-SEC23/TL/KS/6SK223/SR/M	760442004	1
Splice cassette set 6xSC sandwich	LWL-SEC23/TL/KS/6SK223/SW/M	760442005	1
Splice cassette cover	LWL-SKAX23/M	760001251	1

Version/Clamping Range (mm)	Type Designation	Article No.	Units per Package
Accessories for RGH6455 TL Interconnect Enclosure			
Splice cassette SE	LWL-SK123	760001001	1
Splice cassette SC heat-shrink.	LWL-SK223/SR	760001002	1
Splice cassette SC sandwich	LWL-SK223/SW	760001003	1
Splice cassette cover	LWL-SKAX23	760001201	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Cable entry, heat-shrink., ø 3-16mm	LWL-KDF/S/3/16	760060115	1
M 8.0 Alumin. clamp size 1a	LWL-AS/M8	966061301	1
M 10.0 Alumin. clamp size 1a	LWL-AS/M10	966061302	1
M 12.0 Alumin. clamp size 1a	LWL-AS/M12	966061303	1
M 14.0 Alumin. clamp size 2	LWL-AS/M14	966061304	1
M 16.0 Alumin. clamp size 2	LWL-AS/M16	966061306	1
M 18.0 Alumin. clamp size 2	LWL-AS/M18	966061307	1
M 20.0 Alumin. clamp size 3	LWL-AS/M20	966061308	1
M 22.0 Alumin. clamp size 3	LWL-AS/M22	966061309	1
M 25.0 Alumin. clamp size 3	LWL-AS/M25	966061310	1
K 8.0 Plastic clamp size 1a		761061351	1
K 12.0 Plastic clamp size 1a		761061353	1
K 14.0 Plastic clamp size 2		761061354	1
K 16.0 Plastic clamp size 2		761061356	1
K 18.0 Plastic clamp size 2		761061357	1
K 20.0 Plastic clamp size 3		761061358	1
K 22.0 Plastic clamp size 3		761061359	1

Notes

Notes

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Table of Contents
Termination Boxes

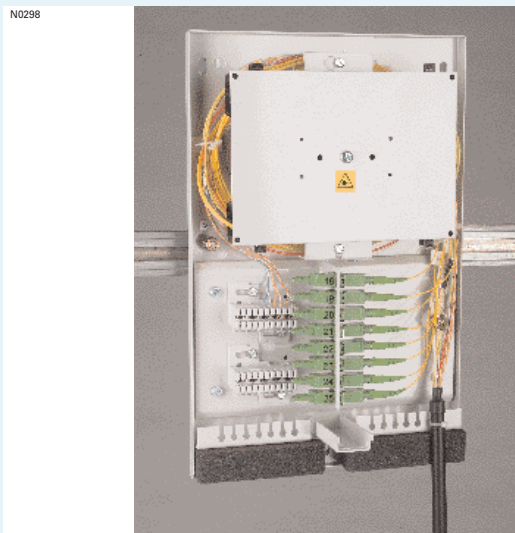
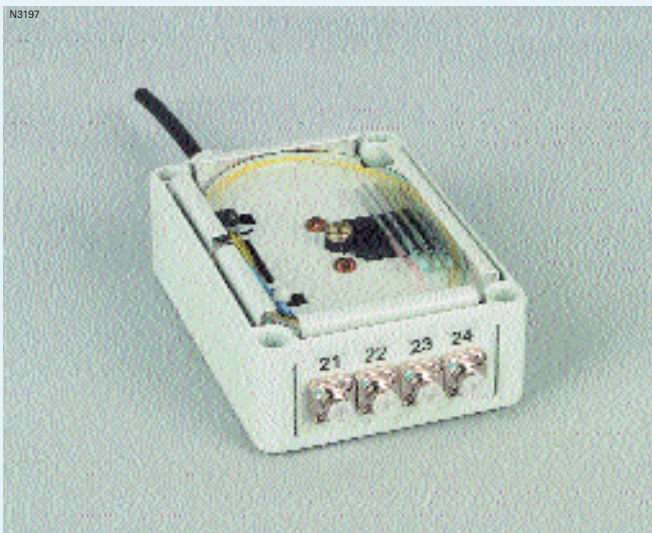
Distribution Enclosure	Page 46
Distribution Enclosures OM10..	Page 47
Distribution Enclosures OM	Page 48
Distribution Enclosures IML	Page 52
Distribution Enclosures IM	Page 54
Distribution Enclosures IM3	Page 56
Distribution Enclosures IM3/1	Page 57
Distribution Enclosures VK5	Page 58
 House Distribution Enclosures	 Page 60
House Distribution Enclosure HEV10	Page 60
Wall-mounted Splice Box WSB10	Page 62

Technical Specifications as of page 113.

Termination Boxes

Termination boxes serve as a terminal for fibre optic cable networks and allow the connection of consumer equipment. Inside the termination boxes the individual optical fibres are routed to adapters. Since each termination box has its own enclosure, no additional box or cabinet is required for installation.

The termination boxes are suitable for indoor applications. During their development, in cooperation with highly experienced installation experts, great value has been placed on a maximum of flexibility and ease of installation. Thanks to their special design they are quick and easy to install. Provided the specified degree of protection is respected, trouble-free operation is guaranteed for decades.



Termination Boxes

Technical Specifications page 113.



Distribution Enclosures

Connector Type/Number of Connectors	Type Designation	Article No.	Units per Package
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Distribution Enclosures OM10..

FC/PC	4	OM10-4FCF/1P13	966286702	1
ST	4	OM10-4ST/1P13	966286704	1
SC	4	OM10-4SC/1P13	966286712	1

Accessories for OM10 Distribution Enclosures

Blind plug FC/PC	DNW-SS/FC	102644	1
Blind plug ST	DNW-SS/ST	102645	1
Blind plug SC	DNW-SS/SC/S	102646	1

Termination Boxes

Distribution Enclosures OM, Individual Assembly, LWL...

Ordering Guide

N01510



Technical Specifications page 114.

Basic Enclosure

LWL-OM./GG/M

Splice cassette cover

...-SKA/121...

Max. 1 unit

Splice cassettes

Max. 1 unit with OM2

Max. 4 units with OM3

Splice cassette - large, ...-SK/121..

Splice protection holder (max. 2 units per splice cassette)

Splice protection holder for 8 x heat-shrink., ...-SRH8..

Splice protection holder for 12 x heat-shrink., ...-SRH12..

Splice protection holder for 12 x sandwich, ...-SWH12..

Adapter holes/Cable entries

Max. 2 units

Adapter holes

4 or 8 fibres FC/PC, ST with OM2

12 fibres SC simplex, SC duplex, E2000 with OM2

24 fibres LC duplex with OM2

12 or 16 fibres FC/PC, ST with OM3

12 fibres SC simplex, E2000 with OM3

24 fibres SC simplex, E2000, LC duplex with OM3

48 fibres LC duplex with OM3

LWL-OM/KUB/.../M

Cable entries

1 or 2 cables with OM2

1, 2, 3 or 4 cables with OM3

PG11 cable ø 5-10 mm

PG13 cable ø 6-12 mm

PG16 cable ø 8-14 mm

PG21 cable ø 10-18 mm

LWL-KDF/D/PG....

Termination Boxes

N9897



Version	Type Designation	Article No.	Units per Package
Distribution Enclosure OM2, Individual Assembly, LWL...			
Basic enclosure OM2	LWL-OM2/GG/M	966065000	1
Adapter holes 4x FC/PC	LWL-OM/KUB/4FC/M	760066010	1
Adapter holes 4x ST	LWL-OM/KUB/4ST/M	760066011	1
Adapter holes 8x FC/PC	LWL-OM/KUB/8FC/M	760066012	1
Adapter holes 8x ST	LWL-OM/KUB/8ST/M	760066013	1
Adapter holes 12x SC simplex	LWL-OM/KUB/12SC-S/M	760066018	1
Adapter holes 6x SC duplex	LWL-OM/KUB/6SC-D/M	760066019	1
Cable entry PG11	LWL-KDF/D/PG11/M	760000763	1
Cable entry PG13	LWL-KDF/D/PG13/M	760000764	1
Cable entry PG16	LWL-KDF/D/PG16/M	760000765	1
Cable entry PG21	LWL-KDF/D/PG21/M	760000766	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Accessories for OM2 Distribution Enclosures			
Wall mounting set	LWL-UKM/WM	966076203	1
Blind plug FC/PC	DNW-SS/FC	102644	1
Blind plug ST	DNW-SS/ST	102645	1
Blind plug SC simplex	DNW-SS/SC/S	102646	1
Blind plug SC duplex	DNW-SS/SC/D	102647	1
Cable entry PG11	LWL-KDF/D/PG11	760000713	1
Cable entry PG13	LWL-KDF/D/PG13	760000714	1
Cable entry PG16	LWL-KDF/D/PG16	760000715	1
Cable entry PG21	LWL-KDF/D/PG21	760000716	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1

Termination Boxes

N01510



Version	Type Designation	Article No.	Units per Package
Distribution Enclosure OM3, Individual Assembly, LWL-...			
Basic enclosure OM3	LWL-OM3/GG/M	966066000	1
Adapter holes 8x FC/PC	LWL-OM/KUB/8FC/M	760066012	1
Adapter holes 8x ST	LWL-OM/KUB/8ST/M	760066013	1
Adapter holes 12x FC/PC	LWL-OM/KUB/12FC/M	760066014	1
Adapter holes 12x ST	LWL-OM/KUB/12ST/M	760066015	1
Adapter holes 12x SC simplex	LWL-OM/KUB/12SC-S/M	760066018	1
Adapter holes 16x FC/PC	LWL-OM/KUB/16FC/M	760066016	1
Adapter holes 16x ST	LWL-OM/KUB/16ST/M	760066017	1
Adapter holes 24x SC simplex	LWL-OM/KUB/24SC-S/M	760066020	1
Cable entry PG11	LWL-KDF/D/PG11/M	760000763	1
Cable entry PG13	LWL-KDF/D/PG13/M	760000764	1
Cable entry PG16	LWL-KDF/D/PG16/M	760000765	1
Cable entry PG21	LWL-KDF/D/PG21/M	760000766	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Accessories for OM3 Distribution Enclosures			
Wall mounting set	LWL-UKM/MM	966076203	1
Blind plug FC/PC	DNW-SS/FC	102644	1
Blind plug ST	DNW-SS/ST	102645	1
Blind plug SC simplex	DNW-SS/SC/S	102646	1
Blind plug SC duplex	DNW-SS/SC/D	102647	1
Cable entry PG11	LWL-KDF/D/PG11	760000713	1
Cable entry PG13	LWL-KDF/D/PG13	760000714	1
Cable entry PG16	LWL-KDF/D/PG16	760000715	1
Cable entry PG21	LWL-KDF/D/PG21	760000716	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1

Notes

Notes

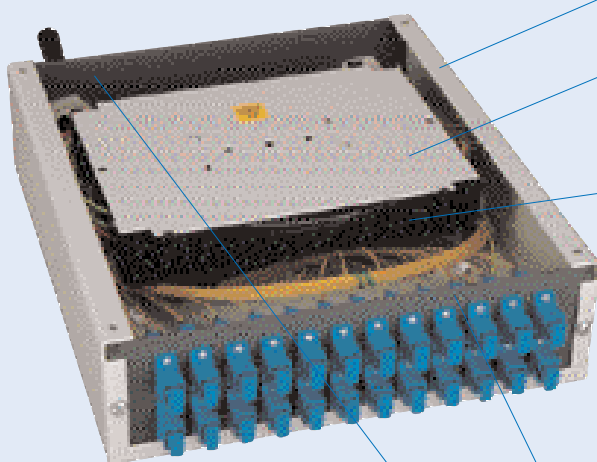
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Termination Boxes

Distribution Enclosure IML, Individual Assembly, LWL-...

Ordering Guide

N00704



Technical Specifications page 116.

Basic enclosure
LWL-IML/GG/M

Splice cassette cover
...-SKA/120...
...-SKA/121...
Max. 1 unit

Splice cassettes

Splice cassette - small
Max. 4 units
Splice cassette - small, with hinge, ...-SK/120/S/..
Splice protection holders (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink, ...-SRH8..
Splice protection holder for 12 x sandwich, ...-SWH12..

Splice cassette - large
Max. 3 units
Splice cassette - large, ...-SK/121..
Splice protection holders (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink, ...-SRH8..
Splice protection holder for 12 x heat-shrink, ...-SRH12..
Splice protection holder for 12 x sandwich, ...-SWH12..

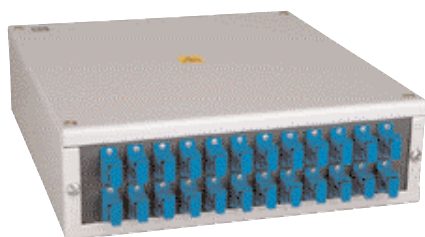
Plates
Max. 2 units

Adapter plates
12 or 24 fibres FC, ST, SC simplex, SC duplex, E2000
24 or 48 fibres LC duplex
LWL-IML/KUP/.../M

Cable entry plates
2 cables
2 PG11 cable ø 8-10 mm
2 PG13 cable ø 10-12 mm
2 PG16 cable ø 12-14 mm
LWL-IML/KEP/2PG../M

Termination Boxes

N00804



Version	Type Designation	Article No.	Units per Package
Distribution Enclosure IML, Individual Assembly, LWL-...			
Basic enclosure IML	LWL-IML/GG/M	966350000	1
Adapter plate 12x FC	LWL-IML/KUP/12FC/M	760350101	1
Adapter plate 12x ST	LWL-IML/KUP/12ST/M	760350103	1
Adapter plate 12x SC simplex	LWL-IML/KUP/12SC-S/M	760350104	1
Adapter plate 6x SC duplex	LWL-IML/KUP/6SC-D/M	760350120	1
Adapter plate 24x FC	LWL-IML/KUP/24FC/M	760350111	1
Adapter plate 24x ST	LWL-IML/KUP/24ST/M	760350113	1
Adapter plate 24x SC simplex	LWL-IML/KUP/24SC-S/M	760350114	1
Adapter plate 12x SC duplex	LWL-IML/KUP/12SC-D/M	760350110	1
Cable entry plate 2x PG11	LWL-IML/KEP/2PG11/M	760350201	1
Cable entry plate 2x PG13	LWL-IML/KEP/2PG13/M	760350202	1
Cable entry plate 2x PG16	LWL-IML/KEP/2PG16/M	760350203	1
Splice cassette - small, with hinge	LWL-SK/120/S/MS/M	760001056	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect..	LWL-SWH12/M	760001152	1
Splice cassette cover f. SK120S	LWL-SKA/120/M	760001252	1
Splice cassette cover f. SK121	LWL-SKA/121/M	760001253	1
Accessories for IML Distribution Enclosures			
Blind plug FC	DNW-SS/FC	102644	1
Blind plug ST	DNW-SS/ST	102645	1
Blind plug SC simplex	DNW-SS/SC/S	102646	1
Blind plug SC duplex	DNW-SS/SC/D	102647	1
Splice cassette - small	DNW-SK/120/S	237473	1
Hinge for small splice cassette	DNW--S/SK/120/S	237474	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover f. SK120S	DNW-SKA/120	237480	1
Splice cassette cover f. SK121	DNW-SKA/121	237481	1

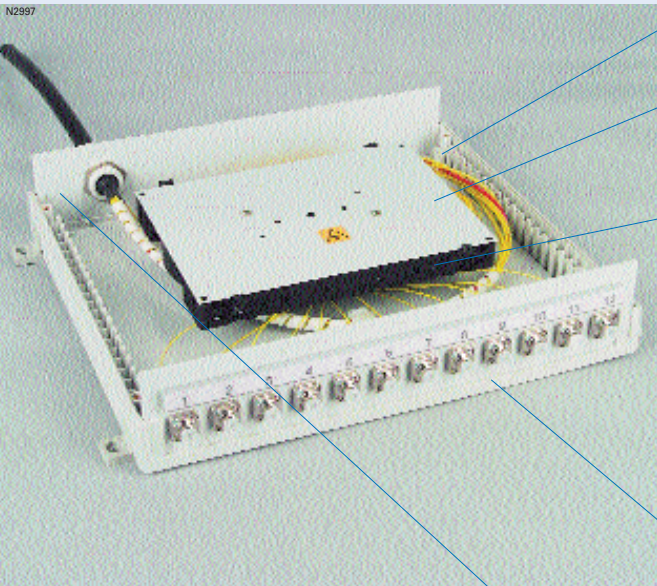
Termination Boxes

Distribution Enclosures IM, Individual Assembly, LWL...

Ordering Guide

Technical Specifications page 117.

N2997



Basic enclosure
LWL-IM./GG/M

Splice cassette cover
...-SKA/121...
Max. 1 unit

Splice cassettes
Max. 1 unit with IM2
Max. 2 units with IM3
Max. 4 units with IM3/1
Splice cassette - large, ...-SK/121..
Splice protection holder (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink., ...-SRH8..
Splice protection holder for 12 x heat-shrink., ...-SRH12..
Splice protection holder for 12 x sandwich, ...-SWH12..

Plates
Max. 2 units

Adapter plates
4 or 8 fibres FC/PC, ST, SC simplex, SC duplex, E2000 with IM2
8 or 16 fibres LC duplex with IM2
8, 12 or 16 fibres FC/PC, ST, SC simplex, SC duplex, E2000 with IM3
16, 24 or 32 fibres LC duplex with IM3
24 or 36 fibres FC/PC, ST, SC simplex, SC duplex, E2000 with IM3/1
48 or 72 fibres LC duplex with IM3/1
LWL-IM.../KUP/.../M

Cable entry plates
1 or 2 cables with IM2, IM3
1, 2, or 3 cables with IM3/1
PG11 cable ø 8-10 mm
PG13 cable ø 10-12 mm
PG16 cable ø 12-14 mm
LWL-IM.../KEP/PG../M

Termination Boxes

N10097



Version	Type Designation	Article No.	Units per Package
Distribution Enclosure IM2, Individual Assembly, LWL...			
Basic enclosure IM2	LWL-IM2/GG/M	966278099	1
Adapter plate 4x FC/PC	LWL-IM2/KUP/4FC/M	760278001	1
Adapter plate 4x ST	LWL-IM2/KUP/4ST/M	760278002	1
Adapter plate 4x SC simplex	LWL-IM2/KUP/4SC-S/M	760278003	1
Adapter plate 2x SC duplex	LWL-IM2/KUP/2SC-D/M	760278004	1
Adapter plate 8x FC/PC	LWL-IM2/KUP/8FC/M	760278005	1
Adapter plate 8x ST	LWL-IM2/KUP/8ST/M	760278006	1
Adapter plate 8x SC simplex	LWL-IM2/KUP/8SC-S/M	760278007	1
Adapter plate 4x SC duplex	LWL-IM2/KUP/4SC-D/M	760278008	1
Cable entry plate 1x PG11	LWL-IM2/KEP/1PG11/M	760278009	1
Cable entry plate 1x PG13	LWL-IM2/KEP/1PG13/M	760278010	1
Cable entry plate 1x PG16	LWL-IM2/KEP/1PG16/M	760278011	1
Cable entry plate 2x PG11	LWL-IM2/KEP/2PG11/M	760278012	1
Cable entry plate 2x PG13	LWL-IM2/KEP/2PG13/M	760278013	1
Cable entry plate 2x PG16	LWL-IM2/KEP/2PG16/M	760278014	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Accessories for IM2 Distribution Enclosures			
Set of wall brackets		966278000	1
Blind plug FC/PC	DNW-SS/FC	102644	1
Blind plug ST	DNW-SS/ST	102645	1
Blind plug SC simplex	DNW-SS/SC/S	102646	1
Blind plug SC duplex	DNW-SS/SC/D	102647	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1

Termination Boxes

N4297



Version	Type Designation	Article No.	Units per Package
Distribution Enclosure IM3, Individual Assembly, LWL-...			
Basic enclosure IM3	LWL-IM3/GG/M	966279000	1
Adapter plate 8x FC/PC	LWL-IM3/KUP/8FC/M	760279001	1
Adapter plate 8x ST	LWL-IM3/KUP/8ST/M	760279002	1
Adapter plate 8x SC simplex	LWL-IM3/KUP/8SC-S/M	760279003	1
Adapter plate 4x SC duplex	LWL-IM3/KUP/4SC-D/M	760279004	1
Adapter plate 12x FC/PC	LWL-IM3/KUP/12FC/M	760279005	1
Adapter plate 12x ST	LWL-IM3/KUP/12ST/M	760279006	1
Adapter plate 12x SC simplex	LWL-IM3/KUP/12SC-S/M	760279007	1
Adapter plate 6x SC duplex	LWL-IM3/KUP/6SC-D/M	760279008	1
Adapter plate 16x FC/PC	LWL-IM3/KUP/16FC/M	760279009	1
Adapter plate 16x ST	LWL-IM3/KUP/16ST/M	760279010	1
Adapter plate 16x SC simplex	LWL-IM3/KUP/16SC-S/M	760279011	1
Adapter plate 8x SC duplex	LWL-IM3/KUP/8SC-D/M	760279012	1
Cable entry plate 1x PG11	LWL-IM3/KEP/1PG11/M	760279013	1
Cable entry plate 1x PG13	LWL-IM3/KEP/1PG13/M	760279014	1
Cable entry plate 1x PG16	LWL-IM3/KEP/1PG16/M	760279015	1
Cable entry plate 2x PG11	LWL-IM3/KEP/2PG11/M	760279016	1
Cable entry plate 2x PG13	LWL-IM3/KEP/2PG13/M	760279017	1
Cable entry plate 2x PG16	LWL-IM3/KEP/2PG16/M	760279018	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Accessories for IM3 Distribution Enclosures			
Set of wall brackets		966278000	1
Blind plug FC/PC	DNW-SS/FC	102644	1
Blind plug ST	DNW-SS/ST	102645	1
Blind plug SC simplex	DNW-SS/SC/S	102646	1
Blind plug SC duplex	DNW-SS/SC/D	102647	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1

Termination Boxes

Version	Type Designation	Article No.	Units per Package
Distribution Enclosure IM3/1, Individual Assembly, LWL...			
Basic enclosure IM3/1	LWL-IM3/1/GG/M	966279100	1
Adapter plate 24x FC/PC	LWL-IM3/1/KUP/24FC/M	760279101	1
Adapter plate 24x ST	LWL-IM3/1/KUP/24ST/M	760279102	1
Adapter plate 24x SC simplex	LWL-IM3/1/KUP/24SC-S/M	760279103	1
Adapter plate 12x SC duplex	LWL-IM3/1/KUP/12SC-D/M	760279104	1
Adapter plate 36x FC/PC	LWL-IM3/1/KUP/36FC/M	760279105	1
Adapter plate 36x ST	LWL-IM3/1/KUP/36ST/M	760279106	1
Adapter plate 36x SC simplex	LWL-IM3/1/KUP/36SC-S/M	760279107	1
Adapter plate 18x SC duplex	LWL-IM3/1/KUP/18SC-D/M	760279108	1
Cable entry plate 1x PG11	LWL-IM3/1/KEP/1PG11/M	760279109	1
Cable entry plate 1x PG13	LWL-IM3/1/KEP/1PG13/M	760279110	1
Cable entry plate 1x PG16	LWL-IM3/1/KEP/1PG16/M	760279111	1
Cable entry plate 2x PG11	LWL-IM3/1/KEP/2PG11/M	760279112	1
Cable entry plate 2x PG13	LWL-IM3/1/KEP/2PG13/M	760279113	1
Cable entry plate 2x PG16	LWL-IM3/1/KEP/2PG16/M	760279114	1
Cable entry plate 3x PG11	LWL-IM3/1/KEP/3PG11/M	760279115	1
Cable entry plate 3x PG13	LWL-IM3/1/KEP/3PG13/M	760279116	1
Cable entry plate 3x PG16	LWL-IM3/1/KEP/3PG16/M	760279117	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Accessories for IM3/1 Distribution Enclosures			
Set of wall brackets		966278000	1
Blind plug FC/PC	DNW-SS/FC	102644	1
Blind plug ST	DNW-SS/ST	102645	1
Blind plug SC simplex	DNW-SS/SC/S	102646	1
Blind plug SC duplex	DNW-SS/SC/D	102647	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1

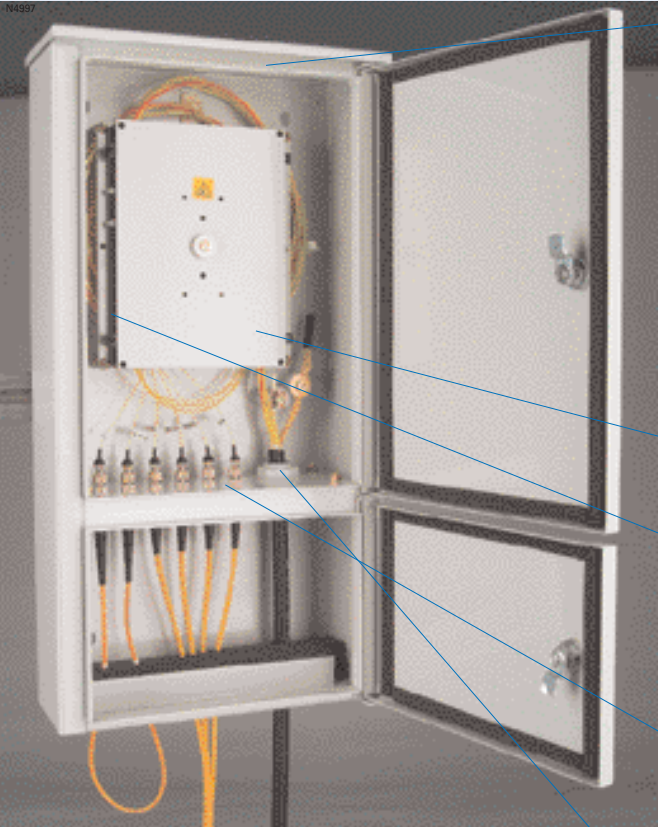
Termination Boxes

Distribution Enclosure VK5, Individual Assembly, LWL...

Ordering Guide

Technical Specifications page 119.

N4997



Basic enclosure

1 Door

Basic enclosure LWL-VK5/1T/GG/M
Closure
Max. 1 unit
Lock LWL-VK5/S..
Latch LWL-VK5/R..

2 Doors

Basic enclosure LWL-VK5/2T/GG/M
Closure
Max. 2 units
Lock LWL-VK5/S..
Latch LWL-VK5/R..

Splice cassette cover

...SKA/121...
Max. 1 unit

Splice cassettes

Max. 2 units
Splice cassette - large, ...SK/121..
Splice protection holder (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink, ...SRH8..
Splice protection holder for 12 x heat-shrink, ...SRH12..
Splice protection holder for 12 x sandwich, ...SWH12..

Intermediate plate for adapters and cable entries

Max. 1 unit
12 fibres FC/PC, ST, SC simplex, E2000
24 fibres LC duplex
and 2 holes for PG11, PG13 or PG16
LWL-VK5/ZP/12../PG../M

Cable entry set

Max. 2 units
PG11 cable ø 8-10 mm
PG13 cable ø 10-12 mm
PG16 cable ø 12-14 mm
LWL-KDF/PG..

Termination Boxes



Version	Type Designation	Article No.	Units per Package
Distribution Enclosure VK5, Individual Assembly, LWL-...			
Basic enclosure with 1 door	LWL-VK5/1T/GG/M	966305051	1
Basic enclosure with 2 doors	LWL-VK5/2T/GG/M	966305052	1
Door lock	LWL-VK5/S/M	760305001	1
Door latch	LWL-VK5/R/M	760305002	1
Intermediate plate 12x FC/PC, 2xPG11	LWL-VK5/ZP/12FC/2PG11/M	760305011	1
Intermediate plate 12x FC/PC, 2xPG13	LWL-VK5/ZP/12FC/2PG13/M	760305012	1
Intermediate plate 12x FC/PC, 2xPG16	LWL-VK5/ZP/12FC/2PG16/M	760305013	1
Intermediate plate 12x ST, 2xPG11	LWL-VK5/ZP/12ST/2PG11/M	760305014	1
Intermediate plate 12x ST, 2xPG13	LWL-VK5/ZP/12ST/2PG13/M	760305015	1
Intermediate plate 12x ST, 2xPG16	LWL-VK5/ZP/12ST/2PG16/M	760305016	1
Intermediate plate 12x SC, 2xPG11	LWL-VK5/ZP/12SC/2PG11/M	760305017	1
Intermediate plate 12x SC, 2xPG13	LWL-VK5/ZP/12SC/2PG13/M	760305018	1
Intermediate plate 12x SC, 2xPG16	LWL-VK5/ZP/12SC/2PG16/M	760305019	1
Cable entry set PG11	LWL-KDF/PG11/M	760000753	1
Cable entry set PG13	LWL-KDF/PG13/M	760000754	1
Cable entry set PG16	LWL-KDF/PG16/M	760000755	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice protect.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Accessories for VK5 Distribution Enclosures			
Door lock	LWL-VK5/S	760305003	1
Door latch	LWL-VK5/R	760305004	1
Cable entry set PG11	LWL-KDF/PG11	760000703	1
Cable entry set PG13	LWL-KDF/PG13	760000704	1
Cable entry set PG16	LWL-KDF/PG16	760000705	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1

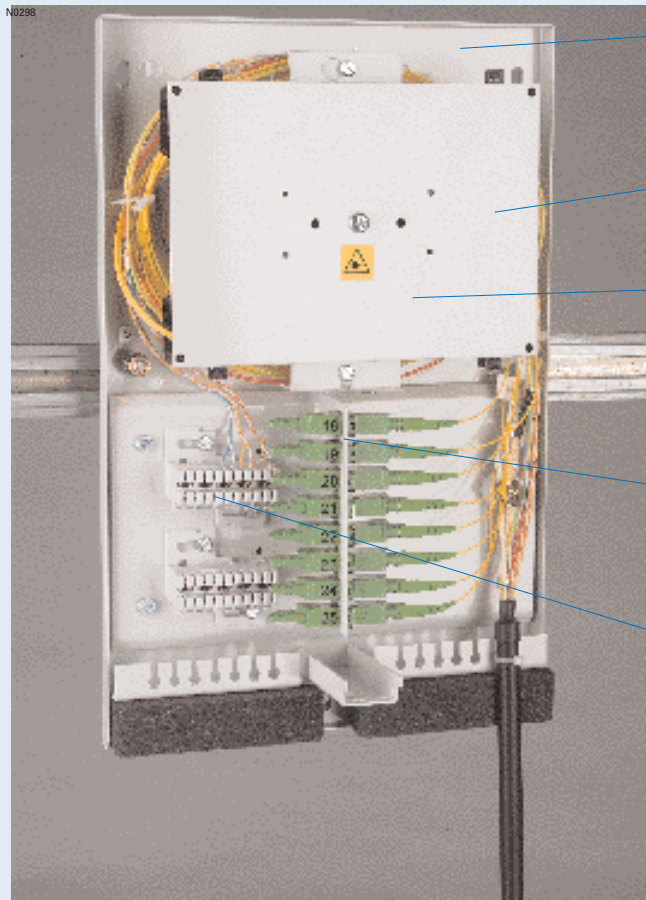
Termination Boxes

House Distribution Enclosures

House Distribution Enclosure HEV10, Individual Assembly, LWL-...

Ordering Guide

Technical Specifications page 120.



Basic enclosure

Basic enclosure LWL-HEV10/GG/M
Closure
Max. 1 unit
Lock LWL-VK5/S..

Splice cassette cover

...-SKA/121..
Max. 1 unit

Splice cassettes

Max. 4 units
Splice cassette - large, ...-SK/121..
Splice protection holder (max. 2 units per splice cassette)
Splice protection holder for 8 x heat-shrink., ...-SRH8..
Splice protection holder for 12 x heat-shrink., ...-SRH12..
Splice protection holder for 12 x sandwich, ...-SWH12..

Adapter angle

Max. 1 unit
8 or 12 fibres FC/PC, ST, SC simplex, E2000
16 or 24 fibres LC duplex
LWL-HEV10/KUW/.../M

LSA PLUS terminal rail, 5 dual wires

Max. 4 units
LWL-LSA/P/L/5DA...

Termination Boxes

N0198



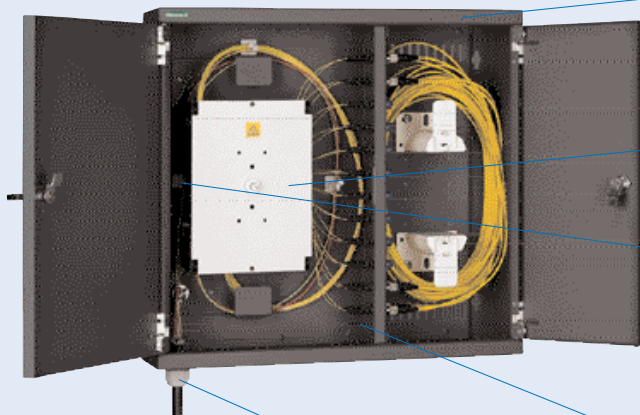
Version	Type Designation	Article No.	Units per Package
House Distribution Enclosure HEV10, Individual Assembly, LWL-...			
Basic enclosure HEV10	LWL-HEV10/GG/M	966301500	1
Lock	LWL-VK5/S/M	760305001	1
Adapter angle 8x FC	LWL-HEV10/KUW/8FC/M	760301501	1
Adapter angle 8x ST	LWL-HEV10/KUW/8ST/M	760301502	1
Adapter angle 8x SC	LWL-HEV10/KUW/8SC/M	760301503	1
Adapter angle 12x FC	LWL-HEV10/KUW/12FC/M	760301504	1
Adapter angle 12x ST	LWL-HEV10/KUW/12ST/M	760301505	1
Adapter angle 12x SC	LWL-HEV10/KUW/12SC/M	760301506	1
LSA PLUS terminal rail, 5 dual w.	LWL-LSA/P/L/5DA/M	760301507	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice prot.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Accessories for HEV10 House Distribution Enclosures			
Lock	LWL-VK5/S	760305003	1
LSA PLUS terminal rail, 5 dual w.	LWL-LSA/P/L/5DA	760301508	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1

Termination Boxes

Wall-mounted Splice Box WSB10, Individual Assembly, LWL-...

Ordering Guide

N00308



Technical Specifications page 121.

Basic enclosure

2 doors / 1 lock

Basic enclosure LWL-WSB10/1S/GG/M

2 doors / 2 locks

Basic enclosure LWL-WSB10/2S/GG/M

Splice cassette cover

...-SKA/121..

Max. 1 unit

Splice cassettes

Max. 6 units

Splice cassette - large, ...-SK/121..

Splice protection holder (max. 2 units per splice cassette)

Splice protection holder for 8 x heat-shrink, ...-SRH8..

Splice protection holder for 12 x heat-shrink, ...-SRH12..

Splice protection holder for 12 x sandwich, ...-SWH12..

Adapter plate

Max. 1 unit

24 or 48 fibres FC/PC, ST, SC simplex, SC duplex, E2000

48 or 96 fibres LC duplex

LWL-WSB10/ZP/.../M

Cable entries

Max. 4 units

M16 cable Ø 5-10 mm

M20 cable Ø 8-13 mm

M25 cable Ø 11-15 mm

...-KV/M...

Termination Boxes

N00408



Version	Type Designation	Article No.	Units per Package
Wall-mounted Splice Box WSB10, Individual Assembly, LWL...			
Basic enclosure 1 lock	LWL-WSB10/1S/GG/M	966350601	1
Basic enclosure 2 locks	LWL-WSB10/2S/GG/M	966350602	1
Adapter plate 24x FC/PC	LWL-WSB10/ZP/24FC/M	760350690	1
Adapter plate 24x ST	LWL-WSB10/ZP/24ST/M	760350691	1
Adapter plate 24x SC simplex	LWL-WSB10/ZP/24SC-S/M	760350692	1
Adapter plate 12x SC duplex	LWL-WSB10/ZP/12SC-D/M	760350693	1
Adapter plate 48x FC/PC	LWL-WSB10/ZP/48FC/M	760350694	1
Adapter plate 48x ST	LWL-WSB10/ZP/48ST/M	760350695	1
Adapter plate 48x SC simplex	LWL-WSB10/ZP/48SC-S/M	760350696	1
Adapter plate 24x SC duplex	LWL-WSB10/ZP/24SC-D/M	760350697	1
Cable entry M16	LWL-KV/M16/M	760001951	1
Cable entry M20	LWL-KV/M20/M	760001952	1
Cable entry M25	LWL-KV/M25/M	760001953	1
Splice cassette - large	LWL-SK/121/M	760001055	1
Holder - 8 splice protect. tubes	LWL-SRH8/M	760001151	1
Holder - 12 splice protect. tubes	LWL-SRH12/M	760001153	1
Holder-12 sandwich splice prot.	LWL-SWH12/M	760001152	1
Splice cassette cover for SK121	LWL-SKA/121/M	760001253	1
Accessories for WSB10 Wall-mounted Splice Box			
Cable entry M16	DNW-KV/M16	102668	1
Cable entry M20	DNW-KV/M20	102669	1
Cable entry M25	DNW-KV/M25	102670	1
Splice cassette - large	DNW-SK/121	237475	1
Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
Holder - 12 splice protect. tubes	DNW-SRH12	118970	1
Holder-12 sandwich splice protect.	DNW-SWH12	237477	1
Splice cassette cover for SK121	DNW-SKA/121	237481	1

Notes

Notes

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Table of Contents

Termination System for 19" Technology

19" Patch Panels, 19" Cable Storage Frame	Page 67
Accessories for 19" Patch Panels and for the 19" Cable Storage Frame	Page 69
19" Subassembly Racks, 7U	Page 71
19" Patch Panels, Swing-Type	Page 72
19" Patch Panel - Tubeless System (TL)	Page 74

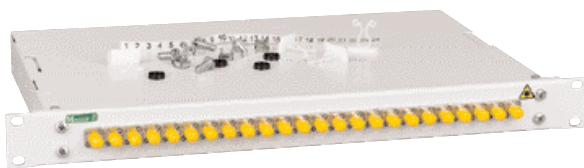
Technical Specifications as of page 122.

Termination System for 19" Technology

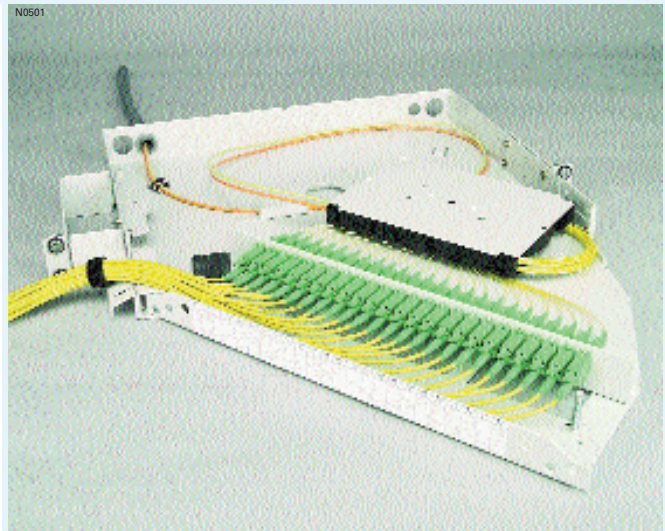
Termination System for 19" Technology

The termination system permits direct splicing and patching. Inside the panels, permanent connections and branch-offs are made and individual fibres are routed to adapters. Termination and interconnection of optical fibres and cables is performed outside the patch panels. Direct connections to consumer equipment can be established. This system is suitable for installation in 19" indoor cabinets. In addition to a large number of patch panels, it also includes cable storage frames and a wide variety of accessories. Therefore the suitable components are always available, no matter whether a small or large number of connections is required. The special design allows quick and easy installation. Termination systems in ETSI technology are available upon request.

N00906



N0501



Termination System for 19" Technology

Technical Specifications page 122.

19" Fibre Optic Patch Panels, 19" Fibre Optic Cable Storage Frame

N00706



No. of Fibres/No. of Adapters/Connector Type	Type	Designation	Article No.	Units per package
19" Patch Panel, 1U, Fixed Version, Empty, DNW-SEL/19H1				
Front plate blind		DNW-SEL/19H1/00BP	107860	1
12 12 FC		DNW-SEL/19H1/12FC	102582	1
12 12 ST		DNW-SEL/19H1/12ST	102583	1
12 12 SC simplex		DNW-SEL/19H1/12SC/S	102584	1
12 6 SC duplex		DNW-SEL/19H1/12SC/D	102585	1
24 24 FC		DNW-SEL/19H1/24FC	102586	1
24 24 ST		DNW-SEL/19H1/24ST	102587	1
24 24 SC simplex		DNW-SEL/19H1/24SC/S	102588	1
24 12 SC duplex		DNW-SEL/19H1/24SC/D	102589	1
48 24 SC duplex		DNW-SEL/19H1/48SC/D	102590	1

N01410



No. of Fibres/No. of Adapters/Connector Type	Type	Designation	Article No.	Units per package
19" Patch Panel, 1U, Pull-out Version - Sliding on a Metal Shelf and Recessable, Empty, DNW-SEA/G/19H1				
Front plate blind		DNW-SEA/G/19H1/00BP	107863	1
12 12 FC		DNW-SEA/G/19H1/12FC	102595	1
12 12 ST		DNW-SEA/G/19H1/12ST	102596	1
12 12 SC simplex		DNW-SEA/G/19H1/12SC/S	102597	1
12 6 SC duplex		DNW-SEA/G/19H1/12SC/D	102598	1
24 24 FC		DNW-SEA/G/19H1/24FC	102599	1
24 24 ST		DNW-SEA/G/19H1/24ST	102600	1
24 24 SC simplex		DNW-SEA/G/19H1/24SC/S	102601	1
24 12 SC duplex		DNW-SEA/G/19H1/24SC/D	102602	1
48 24 SC duplex		DNW-SEA/G/19H1/48SC/D	102603	1

N00806



No. of Fibres/No. of Adapters/Connector Type	Type	Designation	Article No.	Units per package
19" Patch Panel, 1U, Recessable Version, Empty, DNW-SER/19H1				
Front plate blind		DNW-SER/19H1/00BP	107864	1
12 12 FC		DNW-SER/19H1/12FC	102608	1
12 12 ST		DNW-SER/19H1/12ST	102609	1
12 12 SC simplex		DNW-SER/19H1/12SC/S	102610	1
12 6 SC duplex		DNW-SER/19H1/12SC/D	102611	1
24 24 FC		DNW-SER/19H1/24FC	102612	1
24 24 ST		DNW-SER/19H1/24ST	102613	1
24 24 SC simplex		DNW-SER/19H1/24SC/S	102614	1
24 12 SC duplex		DNW-SER/19H1/24SC/D	102615	1
48 24 SC duplex		DNW-SER/19H1/48SC/D	102616	1

N00506



No. of Fibres/No. of Adapters/Connector Type	Type	Designation	Article No.	Units per package
19" Patch Panel, 2U, Recessable Version, Empty, DNW-SER/19H2				
Front plate blind		DNW-SER/19H2/00BP	107868	1
24 24 FC		DNW-SER/19H2/24FC	107869	1
24 24 ST		DNW-SER/19H2/24ST	153529	1
24 24 SC simplex		DNW-SER/19H2/24SC/S	153560	1
36 36 FC		DNW-SER/19H2/36FC	102617	1
36 36 ST		DNW-SER/19H2/36ST	102618	1
36 36 SC simplex		DNW-SER/19H2/36SC/S	102619	1
36 18 SC duplex		DNW-SER/19H2/36SC/D	102620	1
48 48 FC		DNW-SER/19H2/48FC	102621	1
48 48 ST		DNW-SER/19H2/48ST	102622	1
48 48 SC simplex		DNW-SER/19H2/48SC/S	102623	1
48 24 SC duplex		DNW-SER/19H2/48SC/D	102624	1

Termination System for 19" Technology

Technical Specifications page 127.

N01006



No. of Fibres/No. of Adapters/Connector	Type	Type Designation	Article No.	Units per package
19" Patch Panel, 1U, Pull-out Version - With Telescope Slides, Empty, DNW-SEA/T/19H1				
Front plate blind		DNW-SEA/T/19H1/00BP	107870	1
12 12 FC		DNW-SEA/T/19H1/12FC	102625	1
12 12 ST		DNW-SEA/T/19H1/12ST	102626	1
12 12 SC simplex		DNW-SEA/T/19H1/12SC/S	102627	1
12 6 SC duplex		DNW-SEA/T/19H1/12SC/D	102628	1
24 24 FC		DNW-SEA/T/19H1/24FC	102629	1
24 24 ST		DNW-SEA/T/19H1/24ST	102630	1
24 24 SC simplex		DNW-SEA/T/19H1/24SC/S	102631	1
24 12 SC duplex		DNW-SEA/T/19H1/24SC/D	102632	1
48 24 SC duplex		DNW-SEA/T/19H1/48SC/D	102633	1

N00606



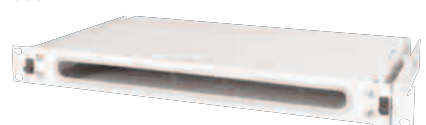
No. of Fibres/No. of Adapters/Connector	Type	Type Designation	Article No.	Units per package
19" Patch Panel, 2U, Pull-out Version - With Telescope Slides, Empty, DNW-SEA/T/19H2				
Front plate blind		DNW-SEA/T/19H2/00BP	107874	1
24 24 FC		DNW-SEA/T/19H2/24FC	107875	1
24 24 ST		DNW-SEA/T/19H2/24ST	153561	1
24 24 SC simplex		DNW-SEA/T/19H2/24SC/S	153562	1
36 36 FC		DNW-SEA/T/19H2/36FC	102634	1
36 36 ST		DNW-SEA/T/19H2/36ST	102635	1
36 36 SC simplex		DNW-SEA/T/19H2/36SC/S	102636	1
36 18 SC duplex		DNW-SEA/T/19H2/36SC/D	102637	1
48 48 FC		DNW-SEA/T/19H2/48FC	102638	1
48 48 ST		DNW-SEA/T/19H2/48ST	102639	1
48 48 SC simplex		DNW-SEA/T/19H2/48SC/S	102640	1
48 24 SC duplex		DNW-SEA/T/19H2/48SC/D	102641	1

N00608

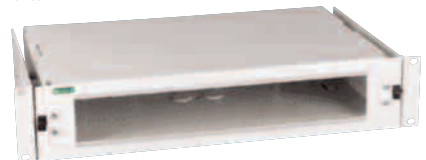


Version	Type Designation	Article No.	Units per package
Cable Trough for Patch Panel, 1U, DNW-KFW/SE_/19H1			
Cable Trough	DNW-KFW/SE_/19H1	121094	1

N01310



N02706



N01306



Version	Type Designation	Article No.	Units per package
19" Cable Storage Frame, Recessable, DNW-K			
Cable storage frame 1U	DNW-KAR/19H1	107876	1
Cable storage frame 2U	DNW-KAR/19H2	102642	1
Cable trough for cable storage 2U	DNW-KW/KAR/19H2	102643	1

Termination System for 19" Technology

Technical Specifications page 130.

Accessories for 19" Patch Panels and for the 19" Cabe Storage Frame

N02006



Cable Diameter (mm)/U/Version	Type Designation	Article No.	Units per package
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Cable Entry Angles, DNW-KE/H

5.5 - 7	1U	1 x M12	DNW-KE/H1/M12	102654	1
7.5 - 11.5	1U	1 x M20	DNW-KE/H1/M20	102656	1
12 - 18.5	1U	1 x M25	DNW-KE/H1/M25	102657	1
5.5 - 7	2U	1 x M12	DNW-KE/H2/M12	102659	1
7.5 - 11.5	2U	1 x M20	DNW-KE/H2/M20	102661	1
12 - 18.5	2U	1 x M25	DNW-KE/H2/M25	102662	1
19 - 26,5	2U	1 x M32	DNW-KE/H2/M32	102663	1
3x5.5 - 7	2U	3 x M12	DNW-KE/H2/3M12	102664	1
4x5.5 - 7	2U	4 x M12	DNW-KE/H2/4M12	102666	1
Up to 16	1U	split	DNW-KE/H1/GET	102673	1

N00708



Cable Diameter (mm)/U/Version	Type Designation	Article No.	Units per package
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Cable Entry Angles with Plastic Cable Glands, DNW-KE/H1/M../K

5 - 10	1U	1 x M16	DNW-KE/H1/M16/K	116559	1
8 - 13	1U	1 x M20	DNW-KE/H1/M20/K	116840	1
11 - 17	1U	1 x M25	DNW-KE/H1/M25/K	116841	1

N02106

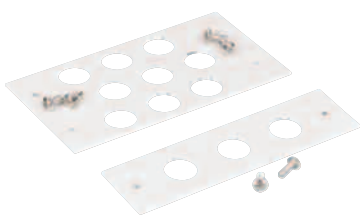


U/Version	Type Designation	Article No.	Units per package
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Cable Entry Angles for Patch Panel Connection Tube STVR9, DNW-KE/H../STVR

1U	1 x STVR9	DNW-KE/H1/M16/STVR	102655	1
2U	1 x STVR9	DNW-KE/H2/M16/STVR	102660	1
2U	3 x STVR9	DNW-KE/H2/3M16/STVR	102665	1
2U	4 x STVR9	DNW-KE/H2/4M16/STVR	102667	1

N02306

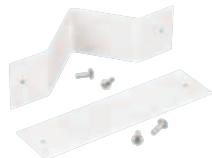


U/Version	Type Designation	Article No.	Units per package
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Cover Plates for Patch Panel Connection Tube STVR9, DNW-AP/H../STVR

1U	3 x STVR9	DNW-AP/H1/3M16/STVR	102650	1
2U	9 x STVR9	DNW-AP/H2/9M16/STVR	102652	1

N02206



U/Version	Type Designation	Article No.	Units per package
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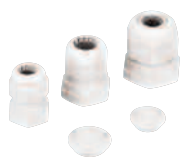
Cable Entry Angles and Blank Cover Plates - for Closing the Entries, DNW-KE/H./B, DNW-AP/H./B

1U	Cable entry angle	DNW-KE/H1/B	102653	1
2U	Cable entry angle	DNW-KE/H2/B	102658	1
1U	Cover plate	DNW-AP/H1/B	102649	1
2U	Cover plate	DNW-AP/H2/B	102651	1

Termination System for 19" Technology

Technical Specifications page 130.

N02406



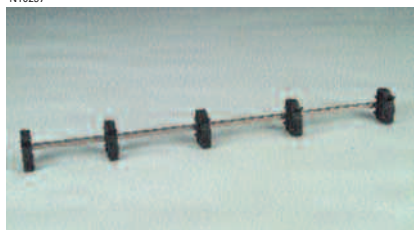
Cable Diameter (mm) / Version	Type Designation	Article No.	Units per package
Cable Glands and Blind Plugs, DNW-.V/M			
5 - 10 M16	DNW-KV/M16	102668	1
8 - 13 M20	DNW-KV/M20	102669	1
11 - 15 M25	DNW-KV/M25	102670	1
Blind M16	DNW-BV/M16	102671	2
Blind M20	DNW-BV/M20	102672	2

N02506



Connector Type	Type Designation	Article No.	Units per package
Dust Covers, DNW-SS			
FC	DNW-SS/FC	102644	1
ST	DNW-SS/ST	102645	1
SC simplex	DNW-SS/SC/S	102646	1
SC duplex	DNW-SS/SC/D	102647	1

N10297



Version	Type Designation	Article No.	Units per package
Cable Management System NWS-KF, Front Handles DNW-FG/SE			
Cable Management System	NWS-KFS/19	255214	1
Cable guides, set of 3	NWS-KF3	255213	1
Front handles (1 pair) - necessary for fixing the cable management system	DNW-FG/SE	102648	1

Termination System for 19" Technology

Technical Specifications page 132.

N1098



Symbolic picture representation

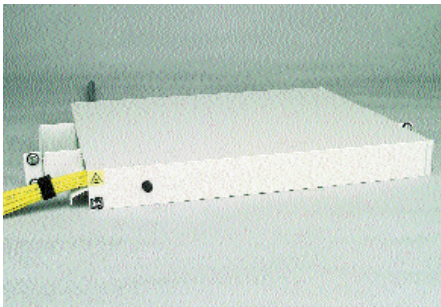
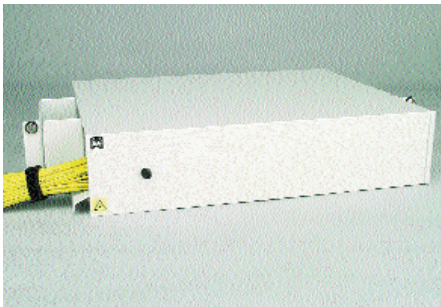
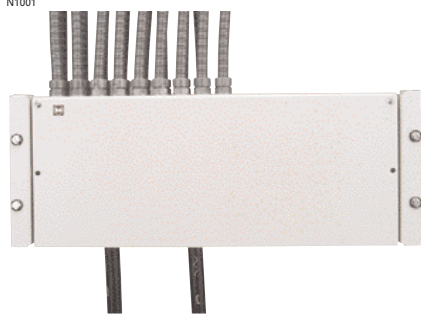
19" Subassembly Racks, 7U

Version	Type Designation	Article No.	Units per Package
19" Subassembly Racks, 7U, 12 Modules, BT 19 H7/12RS.			
Cable entry from the top	BT 19 H7/12RS	966084631	1
Cable entry from the bottom	BT 19 H7/12RSO	966084632	1

Number of Fibres/Connector Type	Type Designation	Article No.	Units per Package
Splice Modules for 19" Subassembly Racks, 7U, 12 Modules, SM 19 H7/..			
None	SM 19 H7/00BP/12	966084060	1
12x FC/PC	SM 19 H7/12FCF/12	966084061	1
12x ST	SM 19 H7/12ST/12	966084063	1
12x SC (=E2000, LC duplex)	SM 19 H7/12SC/12	966084064	1
12x SC (=E2000) with catch spring	SM 19 H7/12SCR/12	966084068	1
16x FC/PC	SM 19 H7/16FCF/12	966084071	1
16x ST	SM 19 H7/16ST/12	966084073	1
16x SC (=E2000, LC duplex)	SM 19 H7/16SC/12	966084074	1
16x SC (=E2000) with catch spring	SM 19 H7/16SCR/12	966084078	1

Version/Cable Diameter (mm)	Type Designation	Article No.	Units per Package
Accessories for 19" Subassembly Racks, 7U, 12 Modules			
Cable entry angle PG13 10-14	KE H7/S13/13/00	966297506	1
Cable entry angle PG16 12-16	KE H7/S13/16/00	966297507	1
Cable entry angle PG21 15-21	KE H7/S13/21/00	966297508	1
Blind front plate	BP 19 H7/12	966264100	1
Blind plug FC/PC	DNW-SS/FC	102644	1
Blind plug ST	DNW-SS/ST	102645	1
Blind plug SC simplex	DNW-SS/SC/S	102646	1

Termination System for 19" Technology

		19" Patch Panels, Swing-Type			
Technical Specifications page 134.		Number of Fibres/Connector Type	Type Designation	Article No.	Units per Package
19" Patch Panels, 1U, Swing-Type, EV-SP 19H1/24..					
		24x FC/PC	EV-SP 19H1/24FCF/2K/00	966421001	1
		24x ST	EV-SP 19H1/24ST/2K/00	966421003	1
		24x SC or E2000	EV-SP 19H1/24SC/2K/00	966421004	1
		Version/Cable Diameter (mm)	Type Designation	Article No.	Units per Package
Accessories for EV-SP 19" Patch Panels, 1U, Swing-Type					
Slanted cable entry PG7 6-8		KE-EV 19H1/07/00	966421902	1	
Slanted cable entry PG9 6.5-9.5		KE-EV 19H1/09/00	966421903	1	
Slanted cable entry PG11 8-12		KE-EV 19H1/11/00	966421904	1	
Slanted cable entry PG13 10-14		KE-EV 19H1/13/00	966421905	1	
Slanted cable entry PG16 12-16		KE-EV 19H1/16/00	966421906	1	
		Version	Type Designation	Article No.	Units per Package
19" Cable Storage Frame, 2U, Swing-Type, EV-KA 19H2					
		Cable storage frame	EV-KA 19H2	966422010	1
Accessories for 19" Cable Storage Frame, 2U, Swing-Type					
		Patch cord guide, semi-circular NWS-PCF	255254	1	
		Version	Type Designation	Article No.	Units per Package
19" Cable Distribution Box, 4U, KAB 19H4/8K/32PG9					
		Cable distribution box	KAB 19H4/8K/32PG9	966289501	1
Accessories for 19" Cable Distribution Box, 4U					
Strain relief set, central strength member-Kevlar				760289599	1

Termination System for 19" Technology

Technical Specifications page 136.

N0598



Version	Type Designation	Article No.	Units per Package
Patch Panel Connection Tube, STVR9			
Set of 2m tube and			
2x PG9 Threaded tube couplings	STVR9	760260107	1
Protection tube, 1 bundle - 50m		760260118	1
Threaded tube coupling PG9		138324300	1
Counternut PG9		138324200	1
Version/Suitable for Type	Type Designation	Article No.	Units per Package
Accessories for STVR9 Patch Panel Connection Tube			
Cable Entry Angles			
1x STVR9 DNW-SE	DNW-KE/H1/M16/STVR	102655	1
1x STVR9 DNW-SE	DNW-KE/H2/M16/STVR	102660	1
3x STVR9 DNW-SE	DNW-KE/H2/3M16/STVR	102665	1
4x STVR9 DNW-SE	DNW-KE/H2/4M16/STVR	102667	1
2x STVR9 BT 19H7/12RS.	KE H7/S13/209/00	966297594	1

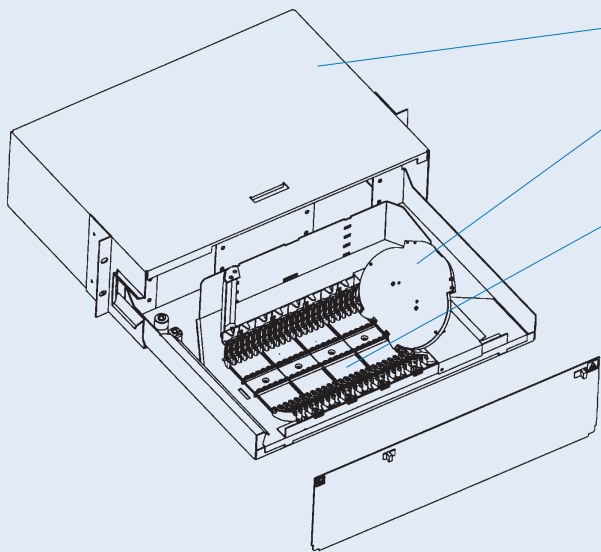
Termination System for 19" Technology

19" Patch Panel - Tubeless System (TL)

19" Patch Panel, 3U, Pull-Out Version, TL , Individual Assembly, LWL...

Ordering Guide

Technical Specifications page 137.



Basic enclosure

LWL-EV/S/TL/19H3/GG/M

Splice cassette cover

LWL-SKAX23..

Max. 1 unit

Splice cassette set

24 Splice cassettes are equivalent to max. 4 sets

SE Single Element

Splice cassette set for 6x16 heat-shrink., LWL-SEC23/TL/KS/6SK123/SR/M

Splice cassette set for 6x12 sandwich, LWL-SEC23/TL/KS/6SK123/SW/M

SC Single Circuit

Splice cassette set for 6x2x4 heat-shrink., LWL-SEC23/TL/KS/6SK223/SR/M

Splice cassette set for 6x2x6 sandwich, LWL-SEC23/TL/KS/6SK223/SW/M

Termination System for 19" Technology

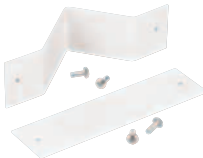
	Version	Type Designation	Article No.	Units per Package
	19" Patch Panels, 3U, Pull-Out Version, TL, Individual Assembly, LWL...			
	Basic enclosure	LWL-EV/S/TL/19H3/GG/M	966427001	1
	Splice cassette set 6xSE heat-shrink.	LWL-SEC23/TL/KS/6SK123/SR/M	760442002	1
	Splice cassette set 6xSE sandwich	LWL-SEC23/TL/KS/6SK123/SW/M	760442003	1
	Splice cassette set 6xSC heat-shrink.	LWL-SEC23/TL/KS/6SK223/SR/M	760442004	1
	Splice cassette set 6xSC sandwich	LWL-SEC23/TL/KS/6SK223/SW/M	760442005	1
	Splice cassette cover	LWL-SKAX23/M	760001251	1
	Version	Type Designation	Article No.	Units per Package
	Accessories for 19" Patch Panels, 3U, Pull-Out Version, TL			
	Splice cassette SE	LWL-SK123	760001001	1
	Splice cassette SC heat-shrink.	LWL-SK223/SR	760001002	1
	Splice cassette SC sandwich	LWL-SK223/SW	760001003	1
	Splice cassette cover	LWL-SKAX23	760001201	1
	Holder - 8 splice protect. tubes	DNW-SRH8	237476	1
	Holder-12 sandwich splice prot.	DNW-SWH12	237477	1
	Cable Diameter (mm)/U/Version	Type Designation	Article No.	Units per package
	Cable Entry Angles, DNW-KE/H			
	5.5 - 7 1U 1 x M12	DNW-KE/H1/M12	102654	1
	7.5 - 11.5 1U 1 x M20	DNW-KE/H1/M20	102656	1
	12 - 18.5 1U 1 x M25	DNW-KE/H1/M25	102657	1
	5.5 - 7 2U 1 x M12	DNW-KE/H2/M12	102659	1
	7.5 - 11.5 2U 1 x M20	DNW-KE/H2/M20	102661	1
	12 - 18.5 2U 1 x M25	DNW-KE/H2/M25	102662	1
	19 - 26,5 2U 1 x M32	DNW-KE/H2/M32	102663	1
	3x5.5 - 7 2U 3 x M12	DNW-KE/H2/3M12	102664	1
	4x5.5 - 7 2U 4 x M12	DNW-KE/H2/4M12	102666	1
	Up to 16 1U split	DNW-KE/H1/GET	102673	1
	Cable Diameter (mm)/U/Version	Type Designation	Article No.	Units per package
	Cable Entry Angles with Plastic Cable Glands, DNW-KE/H1/M../K			
	5 - 10 1U 1 x M16	DNW-KE/H1/M16/K	116559	1
	8 - 13 1U 1 x M20	DNW-KE/H1/M20/K	116840	1
	11 - 17 1U 1 x M25	DNW-KE/H1/M25/K	116841	1
	U/Version	Type Designation	Article No.	Units per package
	Cable Entry Angles and Blank Cover Plates - for Closing the Entries, DNW-KE/H./B, DNW-AP/H./B			
	1U Cable entry angle	DNW-KE/H1/B	102653	1
	2U Cable entry angle	DNW-KE/H2/B	102658	1
	1U Cover plate	DNW-AP/H1/B	102649	1
	2U Cover plate	DNW-AP/H2/B	102651	1

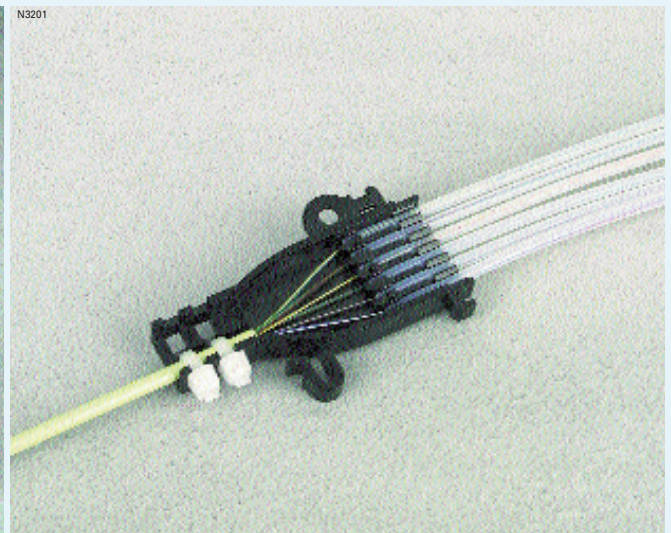
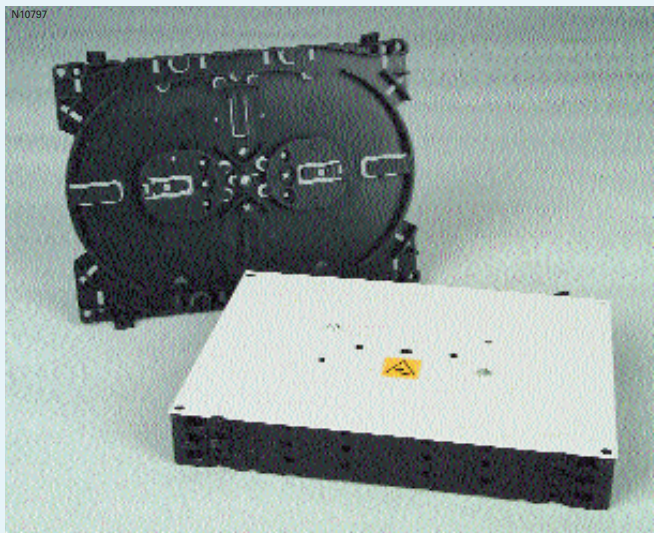
Table of Contents
Accessories

Splice Cassettes	Page 78
Splice Cassette DNW-SK/120	Page 78
Splice Cassette DNW-SK/121	Page 78
Splice Cassette SE, LWL-SK123	Page 79
Splice Cassette SC, LWL-SK223/S.	Page 79
General Accessories	Page 80

Technical Specifications as of page 138.

Accessories

Eaton offers a comprehensive range of accessories for equipment and splicing of optical fibres (e.g. splice protection tubes). Ease of installation and a high degree of compatibility were our priorities during product development. This concept significantly adds to the flexibility of the products (e.g. easy retrofitting of splice cassettes, different types of splice protection holders).



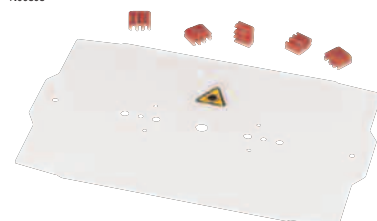
Accessories

Technical Specifications page 138.

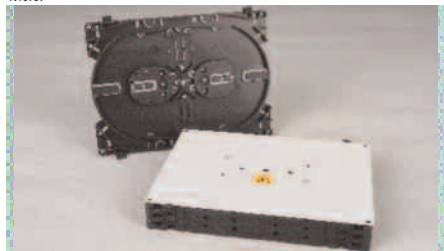
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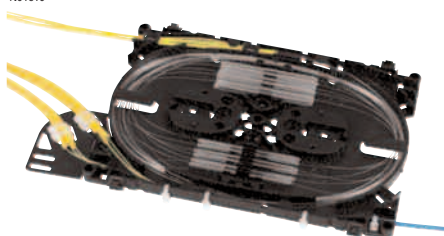
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N10797



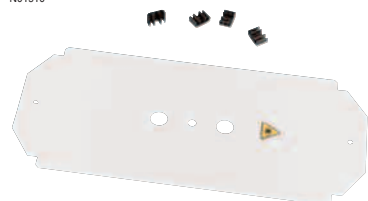
N01610



N02010



N01910



Splice Cassettes

Version	Type Designation	Article No.	Units per Package
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Splice Cassette DNW-SK/120

- with or without the possibility for mounting the hinge DNW-S/SK/120/S

Splice Cassette "with"	DNW-SK/120/S	237473	1
Splice Cassette "without"	DNW-SK/120	237472	1

Hinge for -SK/120/S, DNW-S/SK/120/S

Cover for -SK/120(/S), DNW-SKA/120

Hinge	DNW-S/SK/120/S	237474	1
Cover	DNW-SKA/120	237480	1

Splice Cassette DNW-SK/121

Cover for -SK/121, DNW-SKA/121

Splice cassette	DNW-SK/121	237475	1
Cover	DNW-SKA/121	237481	1

Pigtail Clip PC121

Strain Relief Plate for Cable Pigtail Fastening - for SK121, LWL-SK/121/AP

Pigtail clip	PC121	760276710	1
Strain relief plate	LWL-SK/121/AP	260276350	1

Splice Cassette DNW-SK/333

Splice Cassette	DNW-SK/333	143102	1
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Hinge for -SK/333, DNW-S/SK/333/S

Cover for -SK/333, DNW-SKA/333

Hinge	DNW-S/SK/333/S	143103	1
Cover	DNW-SKA/333	143104	1

Accessories

Technical Specifications page 141.

N02803



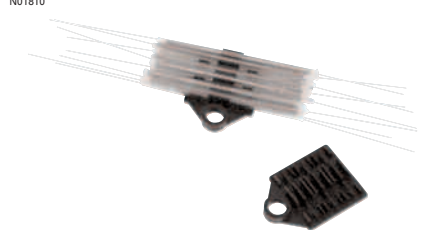
N02903



N03003



N01810



N11197



N11297

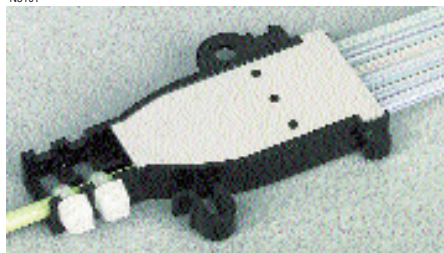


Version	Type Designation	Article No.	Units per Package
Splice Cassette SE, LWL-SK123			
Single Element	LWL-SK123	760001001	1
Splice Cassette SC, LWL-SK223/S.			
2x4 Splice protection tubes Single Circuit	LWL-SK223/SR	760001002	1
2x6 Sandwich splice protectors Single Circuit	LWL-SK223/SW	760001003	1
Splice Cassette Cover, LWL-SKAx23			
Cover for SK123 or SK223	LWL-SKAx23	760001201	1
Splice Protection Holder, DNW-S			
8 Splice protection tubes	DNW-SRH8	237476	1
12 Splice protection tubes	DNW-SRH12	118970	1
12 Sandwich splice protectors	DNW-SWH12	237477	1
Version	Type Designation	Article No.	Units per Package
Splice Protection Tubes Ø 2.5mm, DNW-SR61/2,5/00 or LWL-SR40/2,5/00			
Length of 40 mm *)	LWL-SR40/2,5/00	760001501	50
Length of 61 mm *)	DNW-SR61/2,5/00	237478	50
*) Article No. valid for 1 piece			
Sandwich Splice Protectors, DNW-SW32			
Length 30 mm *)	DNW-SW32	237479	15
*) Article No. valid for 1 piece			

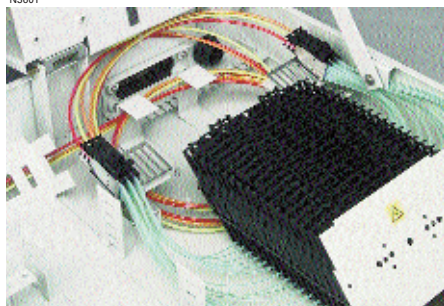
Accessories

Technical Specifications page 143.

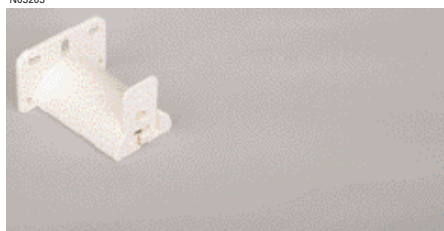
N3101



N3601



N03203



N3501



N01710



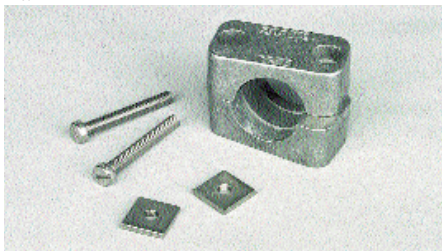
General Accessories

Version	Type Designation	Article No.	Units per Package
Fibre Distribution Head with cover LWL-FATK/D/2/6			
Fibre distribution head + cover	LWL-FATK/D/2/6	966411801	1
UFM-Expansion Set for Interconnect Enclosure RGH6455, LWL-ES/UFM/6455			
UFM-Expansion set	LWL-ES/UFM/6455	760412003	1
Patch Cord Guide, Semi-Circular ...-PCF			
44 mm Tongue	NWS-PCF	255254	1
70 mm Tongue	LWL-PCF/03	760001703	1
Oval Cable Entry LWL-OVE/2/25			
Oval cable entry	LWL-OVE/2/25	760275601	1
Oval cable entry set	LWL-SEC/KES/OVAL	761317003	1
Multiple Cable Entries - flexible tube with cable gland			
Protection Tube 0.5 m	LWL-WELLSCHLAUCH/NW23/0,5m	760920400	1
Protection Tube 1 m	LWL-WELLSCHLAUCH/NW23/1m	760920401	1
Protection Tube 2 m	LWL-WELLSCHLAUCH/NW23/2m	760920402	1
Tube/cable gland adapter	LWL-INNENGWINDEADAPTER/ NW23/M25	760920411	1
Tube/enclosure adapter	LWL-SCHLAUCHANSCHLUSS/ NW23/M25x1,5	760920412	1
Multiple cable gland	LWL-MKV/M25/5x6,5	760920421	1
Multiple cable gland	LWL-MKV/M25/8x5	760920422	1
Multiple cable gland	LWL-MKV/M25/8x4/K	760920423	1
Multiple cable gland	LWL-MKV/M25/12x3/K	760920424	1
Multiple cable gland	LWL-MKV/M25/21x2	760920425	1

Accessories

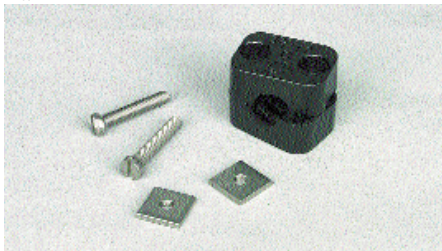
Technical Specifications page 145.

N2501



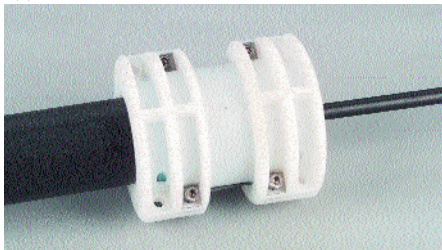
Version	Type Designation	Article No.	Units per Package
Aluminium Clamps LWL-AS/M			
M 8.0 Alumin. clamp size 1a	LWL-AS/M8	966061301	1
M 10.0 Alumin. clamp size 1a	LWL-AS/M10	966061302	1
M 12.0 Alumin. clamp size 1a	LWL-AS/M12	966061303	1
M 14.0 Alumin. clamp size 2	LWL-AS/M14	966061304	1
M 16.0 Alumin. clamp size 2	LWL-AS/M16	966061306	1
M 18.0 Alumin. clamp size 2	LWL-AS/M18	966061307	1
M 20.0 Alumin. clamp size 3	LWL-AS/M20	966061308	1
M 22.0 Alumin. clamp size 3	LWL-AS/M22	966061309	1
M 25.0 Alumin. clamp size 3	LWL-AS/M25	966061310	1

N2601



Version	Type Designation	Article No.	Units per Package
Plastic Clamps LWL-KS/M			
K 8.0 Plastic clamp size 1a	LWL-KS/M8	761061351	1
K 12.0 Plastic clamp size 1a	LWL-KS/M12	761061353	1
K 14.0 Plastic clamp size 2	LWL-KS/M14	761061354	1
K 16.0 Plastic clamp size 2	LWL-KS/M16	761061356	1
K 18.0 Plastic clamp size 2	LWL-KS/M18	761061357	1
K 20.0 Plastic clamp size 3	LWL-KS/M20	761061358	1
K 22.0 Plastic clamp size 3	LWL-KS/M22	761061359	1

N5797



Type of Entry/ Type of Exit	Type Designation	Article No.	Units per Package
Universal Fittings LWL-UF1/R.			
• Empty: Can accommodate accessories			
Universal Fittings			
Tube ø 50mm empty	LWL-UF1/R5/00/00	966287008	1
Tube ø 40mm empty	LWL-UF1/R4/00/00	966287009	1
Universal End Fittings			
Tube ø 50mm Cable ø10-20mm	LWL-UF1/R5/KU/00	966287001	1
Tube ø 50mm Blind closure	LWL-UF1/R5/B/00	966287051	1
Tube ø 40mm Cable ø10-20mm	LWL-UF1/R4/KU/00	966287002	1
Tube ø 40mm Blind closure	LWL-UF1/R4/B/00	966287052	1
Connection Fittings			
Tube ø 50mm Tube ø 50mm	LWL-UF1/R5/R5/00	966287021	1
Tube ø 50mm Tube ø 40mm	LWL-UF1/R5/R4/00	966287041	1
Tube ø 40mm Tube ø 40mm	LWL-UF1/R4/R4/00	966287022	1

Version	Type Designation	Article No.	Units per Package
Accessories for Universal Fittings LWL-UF1/R.			
Cable sealing 12/12		761281250	1
Cable sealing 12/14		761281251	1
Set of screws		966287099	1

N1398



Version	Type Designation	Article No.	Units per Package
Tube End Closures LWL-RAS-R./KU/00			
Tube ø 50mm Cable ø10-25mm	LWL-RAS/R5/KU/00	966287501	1
Tube ø 40mm Cable ø10-25mm	LWL-RAS/R4/KU/00	966287521	1

Table of Contents
Fibre Optic Connectors

Adapters / Pigtails	Page 84
Patch Cords and Breakout Cables	Page 85

Technical Specifications as of page 148.

Fibre Optic Connectors

General information:

Fibre optics technology is generally used to transmit information, i.e. data, commands, language and video communication. Optical fibres provide outstanding transmission capacity and are not susceptible to electromagnetic interference. Detachable connections are a key element in fibre optics technology. Constantly increasing transfer rates place high demands on the components used to ensure trouble-free operation not only today, but also tomorrow. To minimize loss at the transition points, maximum mechanical and optical precision is required.

Fields of application:

Connectors are used with pigtails and patch cords. Together with adapters, they are used in interconnect enclosures, test devices and in transceivers. They make it easy to establish connections and to remove them again. They also offer easy access for measuring jobs and for establishing alternative circuits.

Design:

- A plug-in connection consists of two connectors and one adapter.
- A pigtail is a fibre optic cable (normally a 900µm loose buffered fibre) with a connector on one end only.
- A patch cord is a fibre optic cable with connectors mounted onto both ends.

The type of connector can be different on each end. Fibres used include single-mode, multi-mode 50 and multi-mode 62.5 fibres with an optical fibre diameter of 125 µm. Both simplex and duplex cables can be used.

All connectors must meet the following requirements:

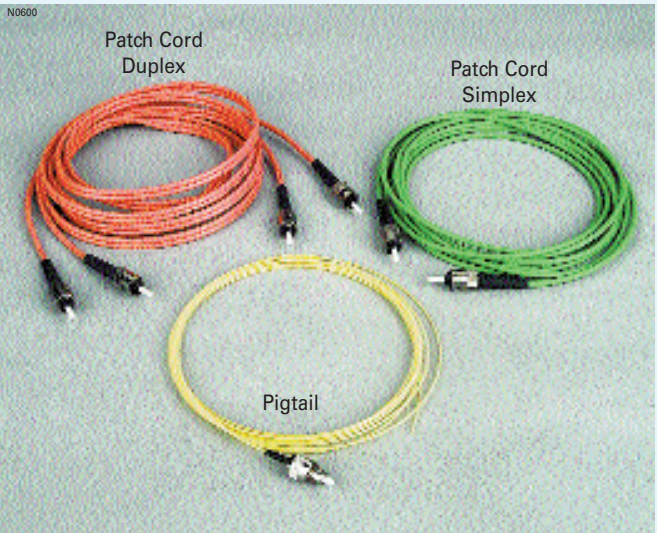
- easy to handle
- low insertion loss (IL)
- high return loss (RL)
- high mechanical stability / long service life, i.e. reproducible attenuation values
- high resistance to climatic effects
- high packing density
- suitable for field installation
- easy to clean

Locking systems:

Threaded lock	e.g.: FC, DIN
Bayonet lock	e.g.: ST
"Push-Pull" lock	e.g.: SC, E2000, LC

Grinding types:

PC	RL > 45dB	Antikink: black
APC 8°	RL > 60dB	Antikink: green

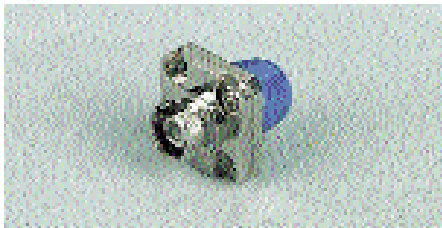


Fibre Optic Connectors

Technical Specifications page 148.

Adapters / Pigtails

N1200



Connector Type/Version	Type Designation	Article No.	Units per Package
------------------------	------------------	-------------	-------------------

Adapters KU..

LC/PC 10/125 duplex		111438	1
LC/PC 50/125, 62.5/125 duplex		111437	1
FC/PC 10/125, 50/125, 62.5/125 (Flange)		237508	1
FC/APC 10/125 (Flange)		101240	1
FC/PC 10/125, (D-hole)		237509	1
FC/PC 50/125, 62.5/125 (D-hole)		101242	1
ST/PC 10/125		101241	1
ST/PC 50/125, 62.5/125		237510	1
SC/PC 10/125 simplex		101067	1
SC/PC 10/125 duplex		101068	1
SC/PC 50/125, 62.5/125 simplex		237511	1
SC/PC 50/125, 62.5/125 duplex		237512	1
SC/APC 10/125 simplex		101069	1
E2000/APC 10/125		116379	1

N2002



Connector Type/Fibre Type/Length	Type Designation	Article No.	Units per Package
----------------------------------	------------------	-------------	-------------------

Pigtails PT..

LC/PC	10/125	2m		111440	2
FC/PC	10/125	2m		765000005	2
FC/PC	10/125	3m		765000001	2
FC/APC	10/125	2m		765000102	2
FC/APC	10/125	3m		765000101	2
ST/PC	10/125	2m		765000201	2
SC/PC	10/125	2m		765000302	2
SC/APC	10/125	3m		765000401	2
E2000/APC	10/125	2m		765000602	2
E2000/APC	10/125	3m		765000603	2
LC/PC	50/125	2m		111439	2
FC/PC	50/125	2m		237482	2
ST/PC	50/125	2m		237487	2
SC/PC	50/125	2m		237492	2
FC/PC	62,5/125	2m		237499	2
ST/PC	62,5/125	2m		237504	2
SC/PC	62,5/125	2m		237507	2

Fibre Optic Connectors

Technical Specifications page 153.

N4301



Patch Cords and Breakout Cables

Patch cords and breakout cables are made to customer specifications. Please specify the type code in your inquiry or order (see Technical Specifications).

Notes

Notes

[illegible]

Technical Specifications

Fibre Optic Enclosures

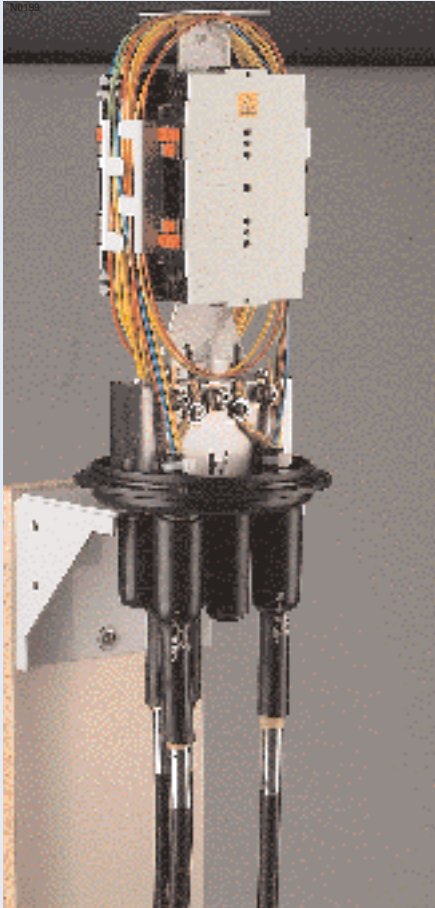
Dome Enclosures

Dome Enclosure SEC15, Individual Assembly, LWL-S...

Description

- The SEC15 Dome Enclosure is particularly suitable for connecting fibre optic cables featuring a small number of fibres
- Enclosure for in-line connections and branch-offs
- Suitable for underground, duct, wall and pole/tower mounting
- Suitable for uncut cables

Basic Enclosure LWL-SEC15/GM/M



- Assembly/disassembly of the dome without any tools
- Sealings can be used again
- Separate strain relief points for central strength member and Kevlar reinforcement
- Storage of cut/uncut multi-fibre loose tubes
- Cable entries

	2 Cables 10-25 mm, uncut
	3 Cables, 10-20 mm
- Splice cassettes

	8 x SK120S or 6 x SK333
--	-------------------------
- Degree of protection

	> IP68
--	--------
- Max. splice capacity

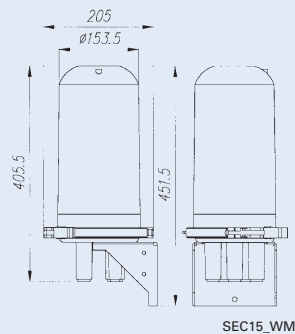
Splice protection tube	128 (SK120S), 144 (SK333)
Sandwich splice protector	192 (SK120S)
- Tests

	According to DIN 47624 Draft 4/97
Mechanical strength	
Load (15 min)	1000 N at the centre of the enclosure, contact area 5 cm ²
Impact (once)	1 kg Steel ball, 2 m fall, at the centre of the enclosure
Pressure resistance	
Permanent pressure	0.4 bar above atmospheric
Tight from	-40°C to +70°C
Tightness with cable	
Strain (15 min)	1000 N
Shearing/bending (twice)	Deflection 45° or a max. of 500 N bending force, Point of application 250 mm from cable entry
Torsion (twice)	±90° rotation angle or a max. torque of 50 Nm, Point of application 500 mm from cable entry
Vibration	168 hours; both cable ends fastened, Amplitude ±3 mm, frequency 10 Hz
Temperature changes	-40°C to +70°C, 10 times
Immersion in wetting agent	168 hours
External pressure resistance	4 m water column
Water vapour permeation	< 240 µg/h at 10°C
- Material

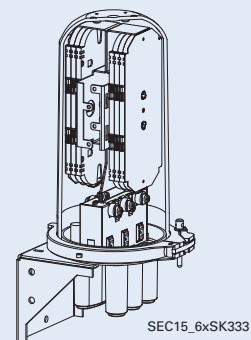
Base plate, dome, locking ring and snap-in lock	Environmentally friendly, UV-resistant polypropylene
Strain relief angle	Stainless steel
Cassette support	Powder-coated aluminium sheet, RAL 7035
- Weight

	Approx. 2 kg
--	--------------
- Scope of delivery

	Base plate, dome, locking ring incl. snap-in lock, securing pin, sealing ring, cassette support, drying agent, 1 copy of Instructions for Installation
--	--
- Dimensions (mm)



SEC15_WM



SEC15_6xSK333

Fibre Optic Enclosures

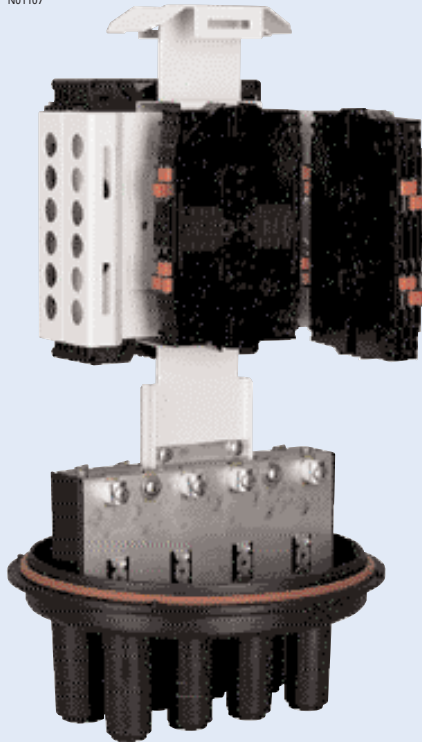
SEC23 Classic Dome Enclosure, Individual Assembly, LWL-S...

Description

- The SEC 23 Classic Dome Enclosure is particularly suitable for connecting fibre optic cables featuring a large number of fibres
- Enclosure for in-line connections and branch-offs
- Suitable for underground, duct, wall and pole/tower mounting
- Suitable for uncut cables

Basic Enclosure LWL-SEC23/S/C/GM/M

N01107



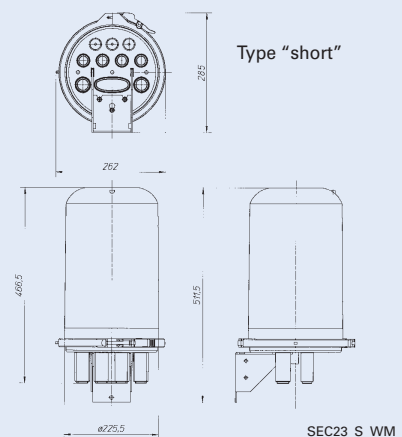
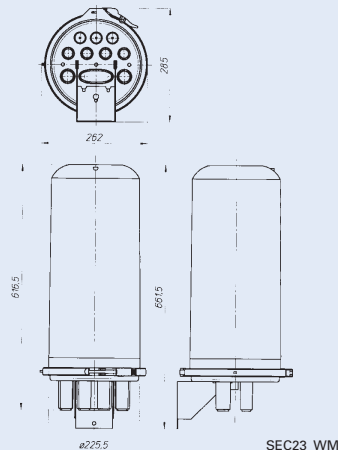
- Assembly/disassembly of the dome without any tools
- Sealings can be used again
- Separate strain relief points for central strength member and Kevlar reinforcement
- Storage of cut/uncut multi-fibre loose tubes
- Cable entries

2 Cables 10-25 mm, uncut
2 Cables 10-25 mm, 4 cables 10-20 mm
3 Cable entries with cable glands with heat-shrinkable sleeves (3-16 mm) optional
- Splice cassettes
- Degree of protection > IP68
- Max. splice capacity

Splice protection tube	384 (SK120S), 384 (SK121)
Sandwich splice protector	576 (SK120S), 384 (SK121)
- Tests

Mechanical strength	
Load (15 min)	1000 N at the centre of the enclosure, contact area 5 cm ²
Impact (once)	1 kg Steel ball, 2 m fall, at the centre of the enclosure
Pressure resistance	
Permanent pressure	0.4 bar above atmospheric
Tight from	-40°C to +70°C
Tightness with cable	
Strain (15 min)	1000 N
Shearing/bending (twice)	Deflection 45° or a max. of 500 N bending force, Point of application 250 mm from cable entry
Torsion (twice)	±90° rotation angle or a max. torque of 50 Nm, Point of application 500 mm from cable entry
Vibration	168 hours; both cable ends fastened, Amplitude ±3 mm, frequency 10 Hz
Temperature changes	-40°C to +70°C, 10 times
Immersion in wetting agent	168 hours
External pressure resistance	4 m water column
Water vapour permeation	< 600 µg/h at 10°C
- Material

Base plate, dome, locking ring and snap-in lock	Environmentally friendly, UV-resistant polypropylene
Strain relief angle	Stainless steel
Cassette support	Powder-coated aluminium sheet, RAL 7035
- Weight Approx. 4 kg
- Scope of delivery Base plate, dome, locking ring incl. snap-in lock, securing pin, sealing ring, cassette support, drying agent, 1 copy of Instructions for Installation
- Dimensions (mm)



Fibre Optic Enclosures

SEC23 Single Element II, Individual Assembly, LWL-S...

Description

- Single Element (SE) version, especially for multi-fibre loose tube management (multi-fibre loose tube upon multi-fibre loose tube)
- In-line connection and branch-off enclosure
- Suitable for ground, duct, wall, pole and tower mounting
- Suitable for uncut cables

Base Enclosure, LWL-SEC23/SEII/GM/M

N02303



- Assembly/disassembly of the dome without any tools
- Sealings can be used again
- Separate strain relief points for central strength member and Kevlar reinforcement
- Pivoting storage frame for cut/uncut multi-fibre loose tubes
- Cable entries

2 cables of 10-25 mm, uncut
2 cables of 10-25 mm, 4 cables of 10-20 mm
3 cable entries with cable glands with heat-shrinkable sleeves (3-16 mm) optional
- Splice cassettes

38 x SK123 or SK223

- Splice cassettes engaged in a slanted position
- Pivoting splice cassettes (90°) to provide easy access to each splice
- Degree of protection

> IP68

- Max. splice capacity

Splice protection tube	608
Sandwich splice protector	912
- Tests

According to DIN 47624 Draft 4/97

- Mechanical strength

Load (15 min)	1000 N at centre of the enclosure, contact area 5 cm ²
Impact (once)	1 kg steel ball, 2 m fall, centre of the enclosure
- Pressure resistance

Permanent pressure	0.4 bar above atmospheric
Tight from	-40°C to +70°C
- Tightness with cable

Strain (15 min)	1000 N
Shearing/Bending (twice)	Deflection 45° or a max. of 500 N bending force, Point of application 250 mm from cable entry
Torsion (twice)	±90° rotation angle or a max. torque of 50 Nm
Vibration	Point of application 500 mm from cable entry
	168 hours; both cable ends fastened, Amplitude ±3 mm, frequency 10 Hz
- Temperature changes

-40°C to +70°C, 10 times

- Immersion in wetting agent

168 hours

- External pressure resistance

4 m water column

- Water vapour permeation

< 600 µg/h at 10°C

- Material

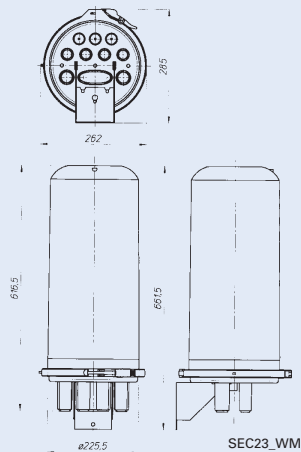
Base plate, dome, locking ring and snap-in lock	Environmentally friendly, UV-resistant polypropylene
Strain relief angle	Stainless steel
Cassette support	Powder-coated aluminium sheet, RAL 7035
- Weight

Approx. 4 kg

- Scope of delivery

Base plate, dome, locking ring with snap-in lock, securing pin, sealing ring, cassette support, drying agent, instructions for installation, 2 fastening ledges for multi-fibre loose tubes

- Dimensions (mm)



Fibre Optic Enclosures

SEC23 Management II, Individual Assembly, LWL-S...

Description

- Management version, suitable especially for Single Circuit (SC) and Single Element (SE).
Single Circuit: Distribution of the fibres from one multi-fibre loose tube to several splice cassettes through fibre protection tubes
- In-line connection and branch-off enclosure
- Suitable for ground, duct, wall, pole and tower mounting
- Suitable for uncut cables

Base Enclosure, LWL-SEC23/MII/GM/M

N02503



- Assembly/disassembly of the dome without any tools
- Sealings can be used again
- Separate strain relief points for central strength member and Kevlar reinforcement
- Pivoting storage frame for cut/uncut multi-fibre loose tubes
- Cable entries

2 cables of 10-25 mm, uncut
2 cables of 10-25 mm, 4 cables of 10-20 mm
3 cable entries with cable glands with heat-shrinkable sleeves (3-16 mm) optional
- Splice cassettes

38 x SK123 or SK223

 Splice cassettes engaged in a slanted position
 Pivoting splice cassettes (90°) to provide easy access to each splice
- Degree of protection

> IP68

- Max. splice capacity

Splice protection tube	SE: 608
Sandwich splice protector	SE: 912
2 splices per cassette	SC: 152
- Tests

According to DIN 47624 Draft 4/97

 Mechanical strength

Load (15 min)	1000 N at centre of the enclosure, contact area 5 cm ²
Impact (once)	1 kg steel ball, 2 m fall, centre of the enclosure

 Pressure resistance

Permanent pressure	0.4 bar above atmospheric
Tight from	-40°C to +70°C

 Tightness with cable

Strain (15 min)	1000 N
Shearing/Bending (twice)	Deflection 45° or a max. of 500 N bending force, Point of application 250 mm from cable entry ±90° rotation angle or a max. torque of 50 Nm, Point of application 500 mm from cable entry
Torsion (twice)	168 hours; both cable ends fastened, Amplitude ±3 mm, frequency 10 Hz
Vibration	

 Temperature changes

-40°C to +70°C, 10 times

 Immersion in wetting agent

168 hours

 External pressure resistance

4 m water column

 Water vapour permeation

< 600 µg/h at 10°C

- Material

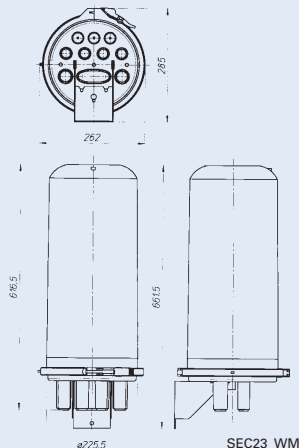
Base plate, dome, locking ring and snap-in lock	Environmentally friendly, UV-resistant polypropylene
Strain relief angle	Stainless steel
Cassette support	Powder-coated aluminium sheet, RAL 7035
- Weight

Approx. 3.85 kg

- Scope of delivery

Base plate, dome, locking ring with snap-in lock, securing pin, sealing ring, cassette support, drying agent, instructions for installation

- Dimensions (mm)



Fibre Optic Enclosures

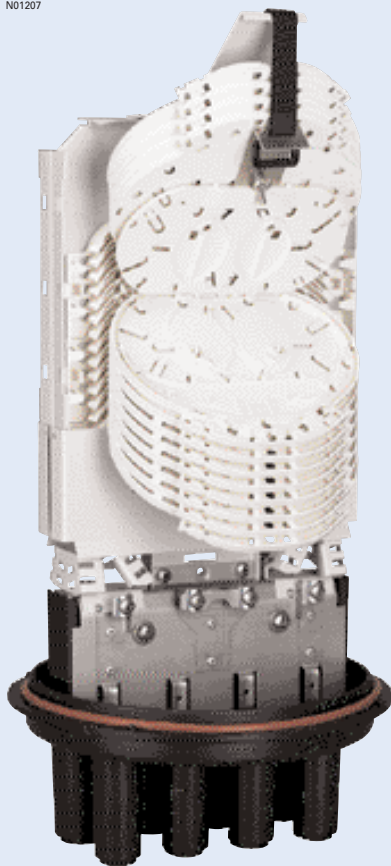
SEC23 Tubeless Short, Individual Assembly, LWL-S...

Description

- Tubeless version suitable especially for Single Circuit (SC) and Single Element (SE).
Single Circuit: Distribution of the fibres from one multi-fibre loose tube to several splice cassettes through fibre guiding channels
- Tubeless laying of the fibres from entry to splice cassette
- Up to 72 individual splice cassettes thanks to the "cassette in a cassette" system
- In-line connection and branch-off enclosure
- Suitable for ground, duct, wall, pole and tower mounting
- "Short" version especially for manholes or cable ducts
- Suitable for uncut cables

Base Enclosure, LWL-SEC23/S/TL/GM/M

N01207



- Assembly/disassembly of the dome without any tools
- Sealings can be used again
- Separate strain relief points for central strength member and Kevlar reinforcement
- An entry module permits fibre guidance to any desired cassette entry
- Cable entries

	2 cables 10-25 mm, uncut
	2 cables 10-25 mm, 4 cables 10-20 mm
- Splice cassettes

	36 x SK123 or SK223
--	---------------------

 Available in cassette sets of 6 splice cassettes each ⇒ max. 6 sets (3 units on either side).
 Splice cassettes engaged in a slanted position
 Pivoting splice cassettes (90°) to provide easy access to each splice
- Degree of protection

	> IP68
--	--------
- Max. splice capacity

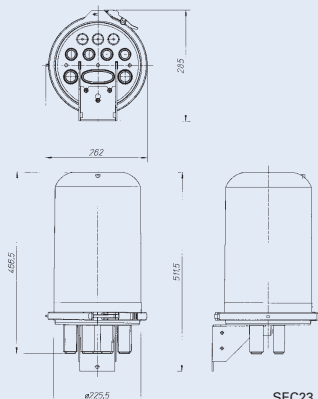
Splice protection tube	SE: 576
Sandwich splice protector	SE: 864
2 splices per cassette	SC: 144
- Tests

	According to DIN 47624 Draft 4/97
Mechanical strength	
Load (15 min)	1000 N at centre of the enclosure, contact area 5 cm ²
Impact (once)	1 kg steel ball, 2 m fall, centre of the enclosure
Pressure resistance	
Permanent pressure	0.4 bar above atmospheric
Tight from	-40°C to +70°C
Tightness with cable	
Strain (15 min)	1000 N
Shearing/bending (twice)	Deflection 45° or a max. of 500 N bending force, Point of application 250 mm from cable entry ±90° rotation angle or a max. torque of 50 Nm, Point of application 500 mm from cable entry
Torsion (twice)	
Vibration	168 hours; both cable ends fastened, Amplitude ±3 mm, frequency 10 Hz
Temperature changes	-40°C to +70°C, 10 times
Immersion in wetting agent	168 hours
External pressure resistance	4 m water column
Water vapour permeation	< 600 µg/h at 10°C
- Material

Base plate, dome, locking ring and snap-in lock	Environmentally friendly, UV-resistant polypropylene
Strain relief angle	Stainless steel
Cassette support	Powder-coated aluminium sheet, RAL 7035
- Weight

	Approx. 3.5 kg
--	----------------
- Scope of delivery

	Base plate, dome, locking ring with snap-in lock, securing pin, sealing ring, cassette support, drying agent, instructions for installation, 2 entry modules incl. cover
--	--
- Dimensions (mm)



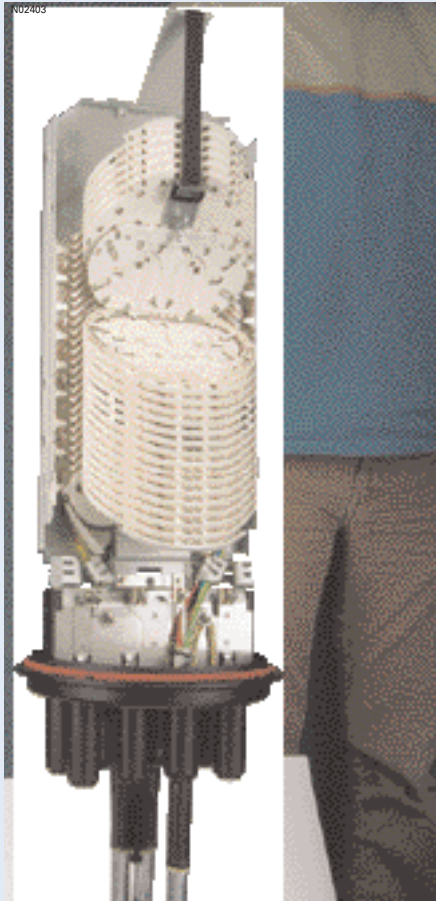
Fibre Optic Enclosures

SEC23 Tubeless, Individual Assembly, LWL-S...

Description

- Tubeless version suitable especially for Single Circuit (SC) and Single Element (SE).
Single Circuit: Distribution of the fibres from one multi-fibre loose tube to several splice cassettes through fibre guiding channels
- Tubeless laying of the fibres from entry to splice cassette
- Up to 144 individual splice cassettes thanks to the "cassette in a cassette" system
- In-line connection and branch-off enclosure
- Suitable for ground, duct, wall, pole and tower mounting
- Suitable for uncut cables

Base Enclosure, LWL-SEC23/TL/GM/M



- Assembly/disassembly of the dome without any tools
- Sealings can be used again
- Separate strain relief points for central strength member and Kevlar reinforcement
- An entry module permits fibre guidance to any desired cassette entry
- Cable entries

	2 cables 10-25 mm, uncut
	2 cables 10-25 mm, 4 cables 10-20 mm
- Splice cassettes

	72 x SK123 or SK223
--	---------------------

 Available in cassette sets of 6 splice cassettes each $\Rightarrow$ max. 12 sets (6 units on either side).
 Splice cassettes engaged in a slanted position
 Pivoting splice cassettes (90°) to provide easy access to each splice
- Degree of protection

	> IP68
--	--------
- Max. splice capacity

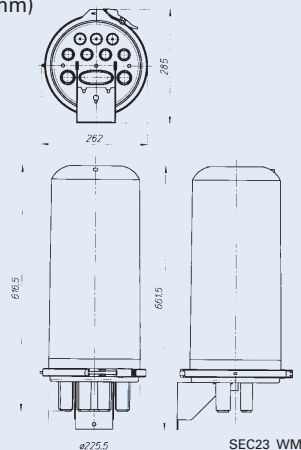
Splice protection tube	SE: 1152
Sandwich splice protector	SE: 1728
2 splices per cassette	SC: 288
- Tests

	According to DIN 47624 Draft 4/97
Mechanical strength	
Load (15 min)	1000 N at centre of the enclosure, contact area 5 cm ²
Impact (once)	1 kg steel ball, 2 m fall, centre of the enclosure
Pressure resistance	
Permanent pressure	0.4 bar above atmospheric
Tight from	-40°C to +70°C
Tightness with cable	
Strain (15 min)	1000 N
Shearing/bending (twice)	Deflection 45° or a max. of 500 N bending force, Point of application 250 mm from cable entry
Torsion (twice)	$\pm 90^\circ$ rotation angle or a max. torque of 50 Nm, Point of application 500 mm from cable entry
Vibration	168 hours; both cable ends fastened, Amplitude ± 3 mm, frequency 10 Hz
Temperature changes	-40°C to +70°C, 10 times
Immersion in wetting agent	168 hours
External pressure resistance	4 m water column
Water vapour permeation	< 600 $\mu\text{g/h}$ at 10°C
- Material

Base plate, dome, locking ring and snap-in lock	Environmentally friendly, UV-resistant polypropylene
Strain relief angle	Stainless steel
Cassette support	Powder-coated aluminium sheet, RAL 7035
- Weight

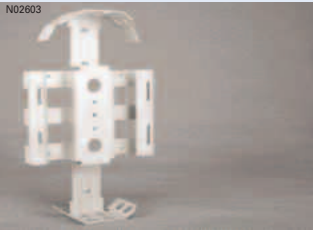
	Approx. 4 kg
--	--------------
- Scope of delivery

	Base plate, dome, locking ring with snap-in lock, securing pin, sealing ring, cassette support, drying agent, instructions for installation, 2 entry modules incl. cover
--	--
- Dimensions (mm)



Fibre Optic Enclosures

Storage Frame for Reserve Lengths, LWL-SEC23/.TL/US..



- The storage frame for reserve lengths serves for storing uncut multi-fibre loose tubes
- Version for SEC23 Tubeless Short and SEC23 Tubeless
- Installation is possible on either side of the SEC23 Tubeless base enclosure
- Material: Powder-coated aluminium sheet, RAL 7035
- Weight: Approx. 0.3 kg
- Scope of delivery: Storage frame for reserve lengths, fastening material

Splice Cassette Set, LWL-SEC23/TL/KS/6SK.23/S./M



- The splice cassette set serves for guiding fibres from the entry module to the splice cassette and for splice storage of all kinds of optical fibres
- Installation of max. 12 splice cassette sets (6 on either side) in the SEC23 Tubeless base enclosure
- Cassette base plate with guiding channels for fibres and fastening options for a max. of 6 LWL-SK123 or LWL-SK223 splice cassettes
- Versions for heat-shrinkable (splice protection tubes) and sandwich (sandwich splice protectors)
- Material: Polycarbonate VL94HB, colour RAL 9001
- Weight: SK123: 0.3 kg; SK223: 0.47 kg
- Scope of delivery: See table below

Scope of delivery

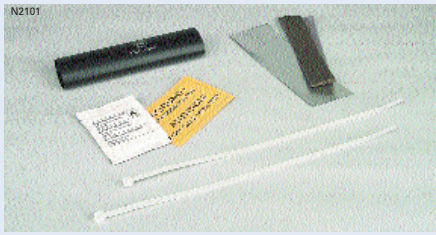
Splice cassette set LWL-SEC-23/TL/KS/...	Cassette base plate	Splice cassette		Splice protection holders		Max. number of splices (Cassettes per set x splices per cassette)
		LWL-SK123	LWL-SK223	...-SRH8	...-SWH12	
...6SK123/SR/M	1 unit	6 units	–	12 units	–	6x16 = 96 Heat-shrinkable splice prot.
...6SK123/SW/M	1 unit	6 units	–	–	6 units	6x12 = 72 Sandwich splice protectors
...6SK223/SR/M	1 unit	–	6 units	–	–	6x2*x4 = 48 Heat-shrinkable splice pr.
...6SK223/SW/M	1 unit	–	6 units	–	–	6x2*x6 = 72 Sandwich splice protect.

* Twice the number thanks to the “cassette in a cassette” system

Fibre Optic Enclosures

Accessories for Dome Enclosures Type SEC..

Standard Cable Entry Set, LWL-SEC/KES/...



- Sealing set for standard connection bushes of the SEC 15 and SEC 23 versions
- For sealing cables with a PE-jacket
- Cable diameters
 - Set for Ø 10-20 mm and Ø 10-25 mm
 - Oval cable entry set for 2 cables Ø 10-25mm, uncut
- Excellent tightness and mechanical strength
- Material: Cross-linked polyolefine, inside coated with thermoplastic adhesive
- Scope of delivery: Heat-shrinkable sleeve, emery cloth, cable cleaning cloth, cable tie wraps, installation material; 1 additional branch-off clamp coming with the oval cable entry set

Multiple Cable Entry Set, LWL-SEC/ME/...



- Sealing set for entry of 3 or 4 cables in standard connection bushes for the SEC15 and SEC 23 versions
- Suitable for connection bushes of Ø 20 and 25 mm
- Cable diameters

	20 mm connection bush	25 mm connection bush
triple	Ø 5-9mm	Ø 5-10mm
quadruple	Ø 3-8mm	Ø 3-9mm
- For sealing cables with a PE-jacket
- Excellent tightness and mechanical strength
- Material: Cross-linked polyolefine, inside coated with thermoplastic adhesive
- Scope of delivery: Heat-shrinkable cap, emery cloth, cable cleaning cloth, cable tie wraps, installation material

Additional Cable Entry Set, LWL-SEC23/KEZ/...



- Only for SEC23 Single Element I and II and for Management I and II
- Expansion to up to 11 cable entries per enclosure
- Max. 3 units to be installed in the base plate
- Cable diameters from 3 to 16 mm
- Additional cable entries pre-installed
 - LWL-SEC23/KEZ/3B/M 3 blank entries installed
 - LWL-SEC23/KEZ/3B+3K/M 3 blank entries installed and 3 cable entries with heat-shrinkable sleeve of 16 mm supplied. Blank entries need to be replaced by cable entries with a heat-shrinkable sleeve of 16 mm (LWL-KDF/S/3/16) for further cables.
- Additional cable entry for on-site retrofitting
 - LWL-SEC23/KEZ/1K for 1 cable entry with a 16 mm heat-shrinkable sleeve
 - LWL-SEC23/KEZ/3K for 3 cable entries with a 16 mm heat-shrinkable sleeve
- Fastening material for strain relief element (e.g. Kevlar reinforcement)
- Material: Cross-linked polyolefine, inside coated with thermoplastic adhesive
- Scope of delivery: Varies depending on the version

Sealing Set for Optical Ground Wires - OPGW (LES), LWL-SEC/AS/LES

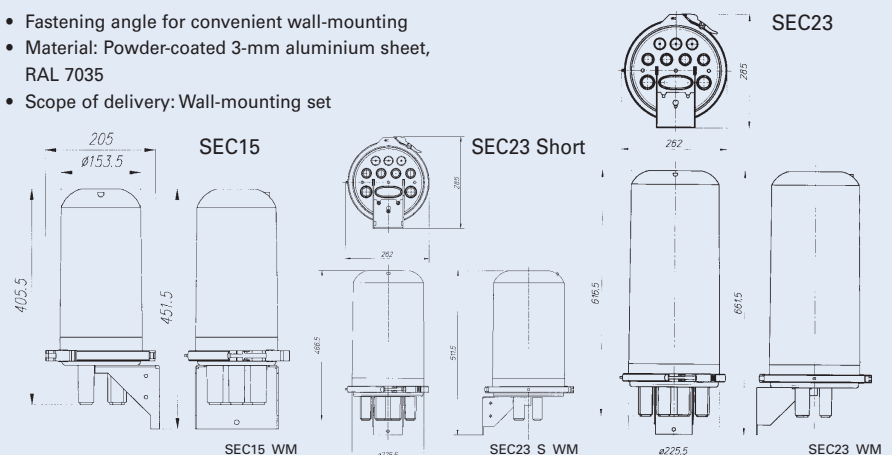


- Sealing set for entry of 2 optical ground wires with up to 3 high-grade steel tubes with integrated fibres
- Suitable for connection bushes of Ø 20 and 25 mm
- Suitable for use in connection with the external strain relief set
- Material: Cross-linked polyolefine, inside coated with thermoplastic adhesive
- Scope of delivery: Heat-shrinkable sleeve, cable cleaning cloth, additional adhesive, installation material for 2 optical ground wires

Wall-mounting Set, LWL-SEC../WM



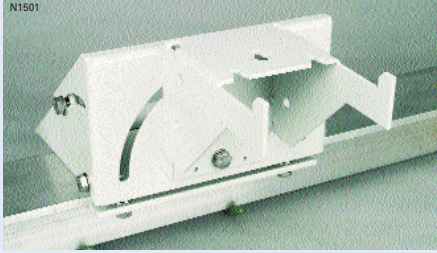
- Fastening angle for convenient wall-mounting
- Material: Powder-coated 3-mm aluminium sheet, RAL 7035
- Scope of delivery: Wall-mounting set



Fibre Optic Enclosures

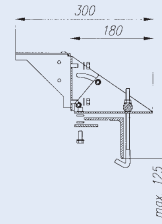
Steel Tower Mounting Set, LWL-SEC../SM

N1501

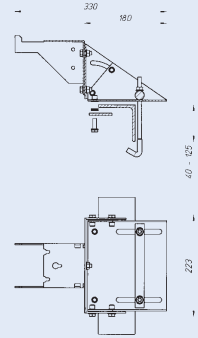


- Clamping support for steel lattice towers
- For angle sections with a leg length of 40 - 125 mm
- Section angle 60°-90°
- No drilling required
- Vertical adjustment of the enclosure along 2 axes
- Enclosure can be engaged
- Material: Powder-coated 3-mm aluminium sheet, RAL 7035
- Scope of delivery: Steel tower mounting set, installation material

SEC15



SEC23



SEC15_WM

SEC23_SM

Round Pole Mounting Set, LWL-SEC../RM...

N1701

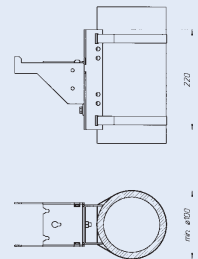


- Fastening set for securing the enclosure to a round pole
- U-shaped support plate is secured to the pole by means of steel strips
- No drilling required
- Independent of pole diameter (min.: 100mm)
- Enclosure can be engaged
- Material: Powder-coated 3-mm aluminium sheet, RAL 7035
- Steel strip and closing buckles not included
- Scope of delivery: Round pole mounting set, installation material

SEC15



SEC23



SEC15_EK

SEC23_RM

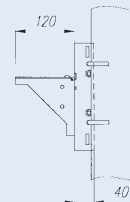
Corner Post Mounting Set - Small and Large, LWL-SEC../EK/0...

N1801

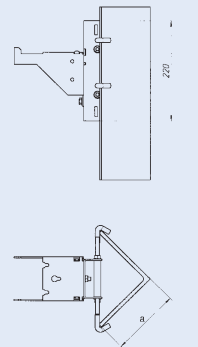


- Clamping support for corner sections of steel lattice towers
- No drilling required
- For angle sections with a leg length of a = 100-200 mm (version 01) or up to 320 mm (version 02)
- Enclosure can be engaged
- Material: Powder-coated 3-mm aluminium sheet, RAL 7035
- Scope of delivery: Corner post mounting set, installation material

SEC15



SEC23

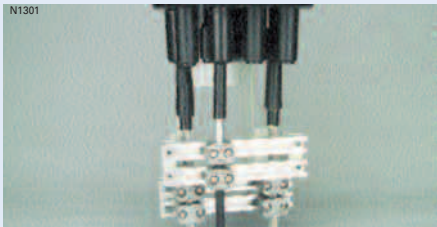


SEC15_SM

SEC23_EK

External Strain Relief Set, LWL-SEC../KZX

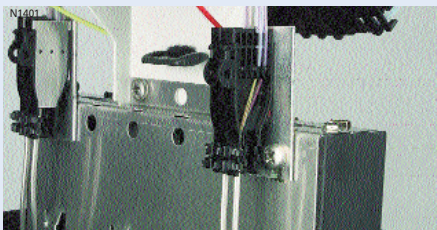
N1301



- Especially for cables resistant to bending and torsion (e.g. optical ground wires)
- External clamping by means of aluminium clamps
- In case of round connection bushes, double clamping with aluminium clamps up to size 2 is possible
- Suitable for installation on any mounting set
- Enclosure can still be engaged on any mounting set
- Material: Powder-coated 3-mm aluminium sheet, RAL 7035
- Clamps and mounting set not included
- Scope of delivery: Strain relief angle, 4 strain relief rails, installation material

Distribution Set for OPGW with a Large Number of Integrated Fibres, LWL-SEC23/LES/A

N1401



- For the distribution of optical ground wires with high-grade steel tubes with a large number of integrated fibres
- The fibre distribution head is mounted onto the strain relief plates by means of a support (max. 2 fibre distribution heads per support)
- Onward routing of the fibre protection tubes either directly to the cassettes or for further distribution (in type SEC 23 Management)
- Suitable for use with external strain relief
- Fibre protection tubes and tie wraps not included in scope of delivery
- Material of support: Aluminium sheet
- Scope of delivery: 4 Fibre distribution heads, 2 supports for 2 cables
- Only required for SEC23 Single Element and Management

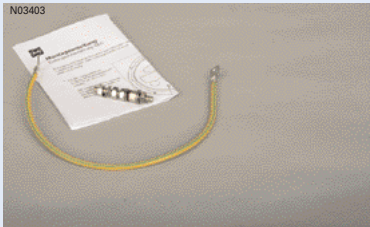
Fibre Optic Enclosures

Fibre Protection Tubes, LWL-FSR/2,1/0,3..



- PTFE-protection tube for optical fibres
- Protects the fibres between the fibre distribution head and the splice cassette
- Excellent sliding properties
- Transparent
- Suitable for the LWL-FATK/2/6 fibre distribution head
- For 1 to 12 optical fibres
- Available as a 10 m bundle or a 250 m coil

Ground Wire Entry Set, LWL-SEC/ED..



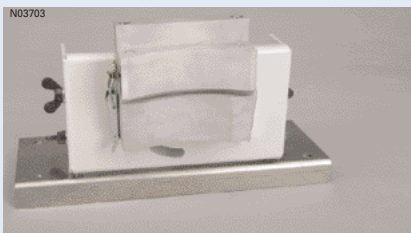
- The ground wire entry set serves for connecting metallic parts inside the enclosure with an external ground wire
- Material
Grounding pin: Nickel-plated brass
Washers and nuts: Stainless steel
- Scope of delivery: 1 Grounding pin, 1 ground wire of 4 mm²

Shield Connection Set, LWL-SEC/SVS



- The shield connection set serves for connecting metallic jackets of fibre optic cables
- Suitable for use in connection with the ground wire entry set
- Scope of delivery: 4 Shield connection cables of 2.5 mm², 1 adhesive tape, fastening material

Mounting Support SEC23, LWL-SEC23/MH



- Mounting support for horizontal and vertical positioning of the SEC23 enclosure during installation
- Material: Aluminium
- Scope of delivery: 1 Mounting support

Patch angle, LWL-SEC23/TL/PW



- Patch angle for mounting of adaptors in a dome enclosure SEC23 Tubeless
- 12x FC or 24x SC simplex
- Mounting space: 2 splice cassette sets
- Material: steel sheet powder coated RAL 7011
- Scope of delivery: 1 angle, installation material

Fibre Optic Enclosures

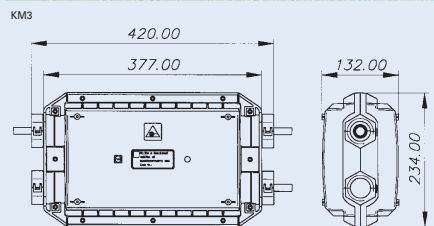
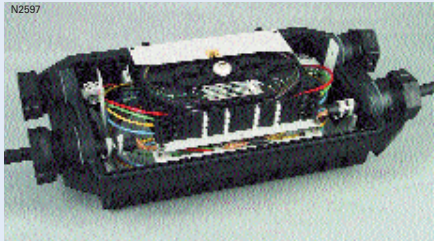
Standard Enclosures

Universal Plastic Sleeve KM3, Individual Assembly, LWL...

Description

- The KM3 Universal Plastic Sleeve is particularly suitable for connecting fibre optic cables featuring a small number of fibres
- Sleeve for in-line connections and branch-offs
- Suitable for underground, duct and wall mounting as well as for installation in a protective sleeve
- Suitable for uncut cables

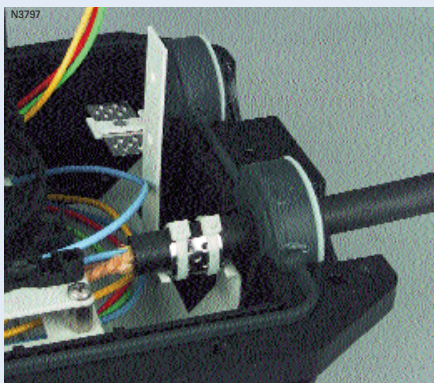
Basic Sleeve LWL-KM3/GM/M



- Sealings can be used again
- Separate strain relief points for central strength member and Kevlar reinforcement
- Removable mounting insert for storing cut/uncut multi-fibre loose tubes
- Cable sealing with a special cable gland, which can be divided, and with an onion ring sealing
- Cable entries 4 Cables 9-25 mm
- Splice cassettes 6 x SK121
- Tests

Mechanical strength	
Load (15 min)	1000 N at the centre of the sleeve, contact area 5 cm ²
Impact (once)	1 kg Steel ball, 2 m fall, at the centre of the sleeve
Pressure resistance	
Permanent pressure	0.4 bar above atmospheric
Tight from	-30°C to +60°C
Tightness with cable	
Strain (15 min)	1000 N
Push (15 min)	1000 N
Shearing/bending (twice)	Deflection 45° or a max. of 500 N bending force, Point of application 250 mm from cable entry
Torsion (twice)	90° rotation angle or a max. torque of 50 Nm, Point of application 400 mm from cable entry
Vibration	168 hours; both cable ends fixed off the vibration desk (500 mm from cable entry)
Temperature changes	-30°C to +60°C, 10 times
Immersion in wetting agent	168 hours
External pressure resistance	4 m water column
Water vapour permeation	< 160 µg/h at 10°C
Top and bottom, cable gland	Environmentally friendly, UV-resistant polypropylene
External components	Stainless steel
Internal components	Powder-coated aluminium, RAL 7035
Sealings	Special rubber compound
1 Basic enclosure, 4 cable glands, 1 mounting insert, 1 cassette base plate, 1 cable cleaning cloth, 1 copy of Instructions for Installation, 1 lubricant for sealings, 1 wrench, drying agent, fastening screws	

Accessories for KM3 Universal Plastic Sleeves - Cable Entry Set



- For cable sealing (all types of jackets)
- Cable diameter 9-25 mm, adjustable on site through an onion ring sealing
- Non-flammable cable sealing
- Blank cable entry set for spare cable entries
- Material: Special rubber compound
- Scope of delivery

1 Onion ring sealing, 2 tie wraps or 1 blanking plug
--

Accessories for Universal Plastic Sleeves KM3 and OM1 and for Distribution Enclosures OM2 and OM3

Wall Mounting Set LWL-UKM/WM

- For wall-mounting of Universal Plastic Sleeves KM3 and OM1 and of Distribution Enclosures OM2 and OM3
- Material: Powder-coated aluminium, RAL 7035
- Scope of delivery: 2 Rails, fastening screws

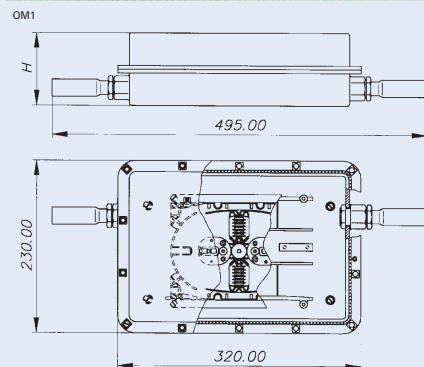
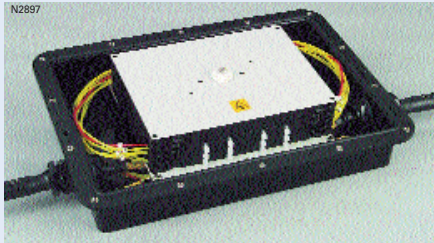
Fibre Optic Enclosures

Universal Plastic Sleeve OM1, Individual Assembly, LWL-...

Description

- OM1 Universal Plastic Sleeves are particularly suitable for connecting fibre optic cables
- Sleeves for in-line connections and branch-offs
- Suitable for underground, duct and wall mounting as well as for installation in a protective sleeve
- With oval cable entry it is suitable for uncut cables

Basic Sleeves LWL-OM1../GM/M



Version	H
OM1	97.0
OM1/1	137.0
OM1/2	177.0

- Sealings can be used again
- Strain relief point for central strength member and Kevlar reinforcement
- Storage of cut/uncut multi-fibre loose tubes
- For sealing of cables with heat-shrinkable cable entries or for preparing a cable insertion for a heat-shrinkable blanking plug
- With uncut cables, sealing is carried out with an oval cable entry and an oval cable entry set
- Cable entries

4 Cables 10-25 mm uncut, or
8 Cables 3-16 mm or
6 Cables 6-22 mm
- Splice cassettes

5 x SK121 with ...-OM1..
8 x SK121 with ...-OM1/1..
13 x SK121 with ...-OM1/2..
- Tests

Mechanical strength	
Load (15 min)	1000 N at the centre of the sleeve, contact area 5 cm ²
Impact (once)	1 kg Steel ball, 2 m fall, at the centre of the sleeve
Pressure resistance	
Permanent pressure	0.4 bar above atmospheric
Tight from	-30°C to +60°C
Tightness with cable	
Strain (15 min)	1000 N
Push (15 min)	500 N
Shearing/bending (twice)	Deflection 45° or a max. of 500 N bending force, Point of application 250 mm from cable entry
Torsion (twice)	90° rotation angle or a max. torque of 50 Nm, Point of application 400 mm from cable entry
Cable vibration	168 hours; both cable ends fixed off the vibration desk (500 mm from cable entry)
Temperature changes	-30°C to +60°C, 10 times
Immersion in wetting agent	168 hours
External pressure resistance	4 m water column
Water vapour permeation	< 120 µg/h at room temperature
- Material

Top and bottom	Environmentally friendly, UV-resistant polypropylene
External components	Stainless steel
Internal components	Powder-coated aluminium, RAL 7035
Sealings	Special rubber compound
- Weight

Approx. 1.5 kg

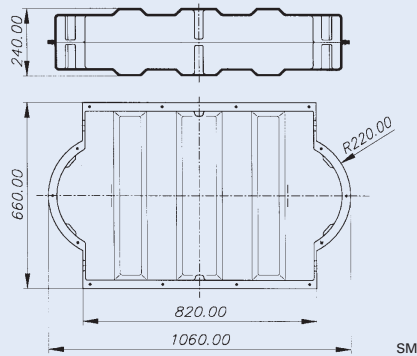
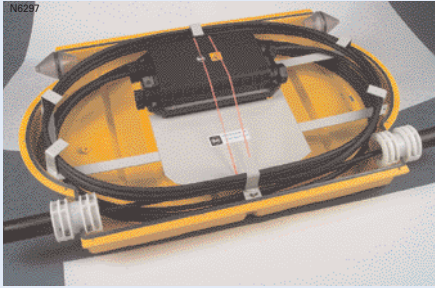
- Scope of delivery

1 Basic enclosure, 1 cassette base plate, 1 cleaning cloth, 1 emery cloth, 1 copy of Instructions for Installation, drying agent, fastening screws
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Fibre Optic Enclosures

Protective Sleeves

Protective Sleeve SM/2F..+2B



- The protective sleeve is an additional enclosure used for accommodating and protecting cable reserves and sleeves
- Especially designed for underground laying
- The split design makes it suitable for uncut cables
- Can also be used for the storage of reserve lengths
- 4 Entries for the installation of UF1 universal end fitting (cable entry) or double strain relief cone (blind plugs for spare entries)
- Integrated support frame for the installation of OM1, OM1/1, OM1/2 and KM3 sleeves
- Integrated support frame for the storage of 2 x 20m cable reserves
- Installation point for an Electronic Marker System (EMS)
- Entries
 - 4x Universal end fitting LWL-UF1/R./KU/00
 - Tube $\varnothing$ 40 or 50 mm
 - Cable $\varnothing$ 10-20 mm
- Tests
 - Mechanical strength
 - Load (5 min.) 18 kN, contact surface over the entire sleeve
 - Impact (10 times) 6 kg guillotine, 90 cm fall, at the centre of the sleeve
 - Impact (once) 7 kg sharp impact device, 80 cm fall, penetration depth < 20 mm at the centre of the sleeve
 - Tightness with UF1 universal end fitting: mud-tight
- Material
 - Top and bottom: Glass-fibre reinforced polyester - yellow (similar to RAL 1018)
 - Universal end fitting: POM
 - Support frame: Powder-coated sheet steel, RAL 7035
 - Screws and washers: Stainless steel
- Weight: Approx. 27 kg
- Scope of delivery: 1 Basic enclosure, 1 support frame, 1 copy of Instructions for Installation, 2 universal end fittings, 2 double strain relief cones, fixing material

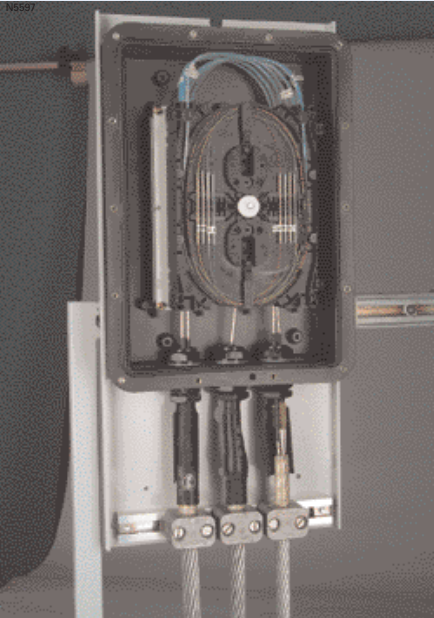
Fibre Optic Enclosures

Metal Dome Enclosures for Optical Ground Wires with Integrated Fibre

Dome Enclosure OM-HM, Individual Assembly, LWL-...

- Description**
- The OM-HM dome enclosure is especially designed for connecting optical ground wires to high-voltage towers
 - Sleeves for in-line connections and branch-offs
 - Suitable for wall, pole and tower mounting

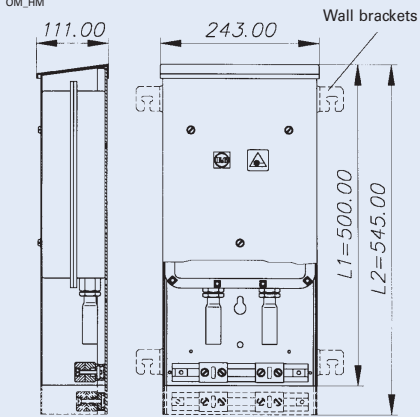
Basic Enclosure LWL-HM/OM1../Z/GG/M



- The dome is both a protection against mechanical strain and UV rays
- Different basic enclosures for OM1 and OM1/1 sleeves
- Strain relief for wires and cables through strain relief rails and aluminium clamps
- Basic enclosure single with one strain relief rail
- Basic enclosure double with two strain relief rails
- Cable entries
 - 4 Optical ground wires 8-27 mm or
 - 4 Cables 3-16 mm or
 - 3 Cables 6-22 mm
- Splice cassettes
 - 5 x SK121 with OM1
 - 8 x SK121 with OM1/1
- Material
 - Base plate, dome Powder-coated aluminium, RAL 7035
 - Strain relief plate Aluminium
 - External components Stainless steel
- Weight
 - Approx. 4 kg
- Scope of delivery
 - 1 Dome, 1 base plate, 1 or 2 strain relief rails, 1 copy of Instructions for installation, fastening screws

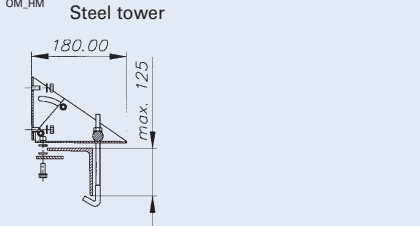
Accessories for OM-HM and HM-LASH Metal Dome Enclosures

Wall Mounting Set LWL-HM/WM/M



- For mounting the dome enclosure onto a wall
- The dome enclosure can be engaged in pre-mounted screws and then fastened since the wall brackets are open at the bottom.

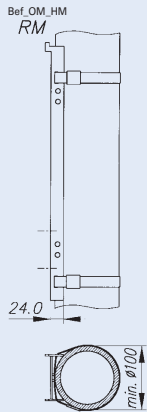
Steel Tower Mounting Set LWL-HM/SM/M



- Clamping support for steel lattice towers
- For angle sections with a leg length of 40-125 mm
- Section angle 60°-90°
- No drilling required
- Vertical adjustment of the enclosure is possible along two axes
- Enclosure can be engaged
- Material: Powder-coated 3 mm aluminium sheet, RAL 7035
- Scope of delivery: Steel tower mounting set, fixing material

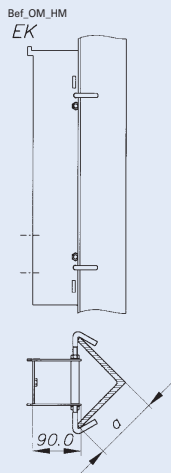
Fibre Optic Enclosures

Round Pole Mounting Set LWL-HM/RM/M



- Fastening set for securing the enclosure to a round pole
- U-shaped support plate is secured to the pole by means of steel strips
- No drilling required
- Independent of pole diameter (min. 100mm)
- Enclosure can be engaged
- Material: Powder-coated 3-mm aluminium sheet, RAL 7035
- Steel strip and closing buckles not included in scope of delivery
- Scope of delivery: Round pole mounting set, installation material

Corner Post Mounting Set LWL-HM/EK/O./M



- Clamping support for corner sections of steel lattice towers
- No drilling required
- For angle sections with a leg length of
a = 100-200 mm (version 01) or
up to 320 mm (version 02)
- Enclosure can be engaged
- Material: Powder-coated 3-mm aluminium sheet, RAL 7035
- Scope of delivery: Corner post mounting set, installation material

Accessories for OM-HM Metal Dome Enclosures

Entry Set for Optical Ground Wires LWL-HM/ES/LES..

- For sealing optical ground wires with integrated fibre
- One set is required for each optical ground wire to be inserted
- Material: Cross-linked polyolefine, inside coated with thermoplastic adhesive
- Scope of delivery: Various heat-shrinkable sleeves

Anti-Insect Seal

- Keeps insects out of the dome enclosure
- Material: Powder-coated aluminium, RAL 7035
- Scope of delivery: 2 Angles, foamed material strips

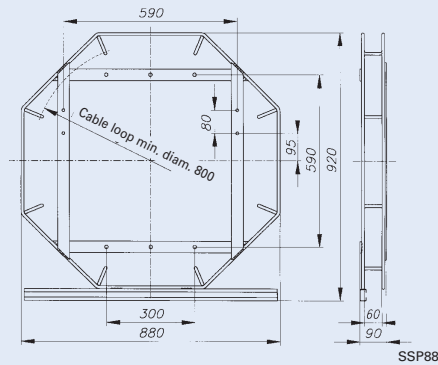
Fibre Optic Enclosures

Wire and Cable Storage Frames

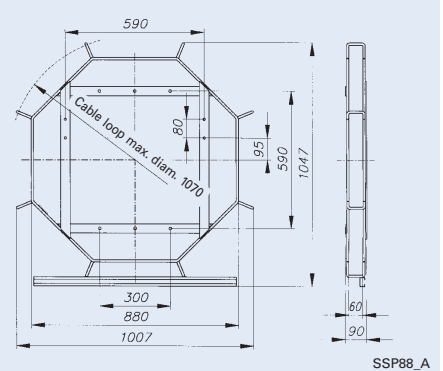
Wire and Cable Storage Frames, LWL-SSP/



LWL-SSP/88



LWL-SSP/88/A



- For orderly storage of wire and cable reserves
- Suitable for indoor and outdoor applications, for wall, duct, pole and tower mounting
- C-Profile rail for strain relief of tubes or cables with cable clips
- Type ./OS comes without C-profile rail
- With type LWL-SSP/88 and LWL-SSP/88/OS cables are wound in loops from outside
- With type ./A cables are wound in loops from inside, particularly suitable for very rigid wires or cables
- Split version for installation in ducts with narrow manholes
- Mounting of the enclosure:
 - 1x OM-HM
 - 1x SEC15 + Wall fastening
 - 1x SEC23 + Wall fastening
- Cable reserves with $\varnothing$ 12 mm: LWL-SSP/88, LWL-SSP/88/OS: 50 to 60 m
 LWL-SSP/88/A, LWL-SSP/88/A/GET, LWL-SSP/88/A/OS: 50 m
 LWL-SSP/113/A, LWL-SSP/113/A/OS: 60 m
- Bending radii: LWL-SSP/88, LWL-SSP/88/OS: 400 mm
 LWL-SSP/88/A, LWL-SSP/88/A/GET, LWL-SSP/88/A/OS: 535 mm
 LWL-SSP/113/A, LWL-SSP/113/A/OS: 670 mm
- Material: Hot-dip galvanized steel
- Weight: Approx. 11.4 kg
- Scope of delivery: 1 Wire and cable storage frame

Interconnect Enclosures and Distribution Cabinets

Interconnect Enclosures

Interconnect Enclosure RGV20, Individual Assembly, LWL-RGV20...

Description

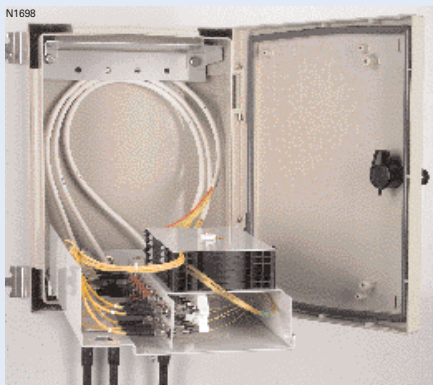
- The interconnect case serves for storing splices and for interconnecting fibre optic cables
- Enclosure for in-line connections and branch-offs
- Suitable for wall mounting
- Suitable for indoor and outdoor applications
- Suitable for uncut cables

Basic Enclosure LWL-RGV20/GG/M

N00208

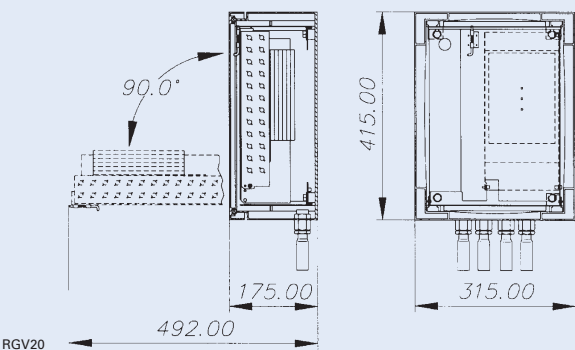


N1698



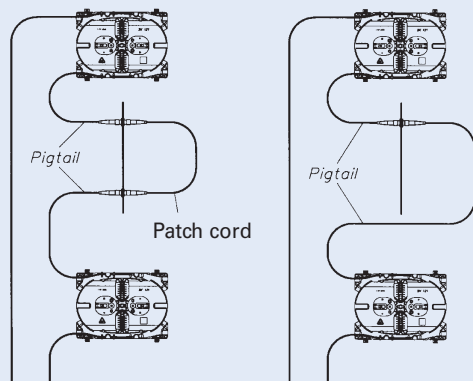
- Door is right-hinged and easy to remove
- Cylinder lock
- Door sealing inside
- Degree of protection IP66 acc. to EN 60529 with heat-shrinkable entry, IP54 with PG cable entry
- Strain relief points for central strength member and Kevlar reinforcement
- Storage for cut/uncut multi-fibre loose tubes
- Swing-type false floor for mounting splice cassettes and patch drawers
- Protected against unintended swing-out through a locking pin
- Cable entries
 - Heat-shrink cable entries
 - 2 cables Ø 10-25mm, oval entry port, uncut
 - 1 cable Ø 3-16mm
 - 1 cable Ø 6-22mm
 - PG cable entries
 - Ø 8-10mm (PG11)
 - Ø 10-12mm (PG13)
 - Ø 12-14mm (PG16)
 - Ø 14-17mm (PG21)
 - 24x Ø 3mm (PG29) for patch cords
- Splice cassettes 6 x SK/121
- Adapters 24 FC/PC, ST, SC, E2000 or LC duplex
- Permanent temperature Max. 150°C
- Colour RAL 7035
- Material
 - Enclosure Thermoformed, self-extinguishing, halogen-free, glass fibre reinforced polyester
 - Inside components Powder-coated sheet steel RAL 7035
- Weight Approx. 7.8 kg
- Scope of delivery
 - Enclosure with door, clip-down handle and sealing, false floor, spiral tapes

Dimensions (mm)



RGV20

Options for Interconnecting



Interconnecting with patch cords

Interconnecting with pigtails

Rangierarten

Hole Pattern

Connector type	FC/PC	ST	SC simplex (= E2000, LC duplex)

Interconnect Enclosures and Distribution Cabinets

Interconnect Enclosure RGV20 TL, Individual Assembly, LWL-RGV20...

Description

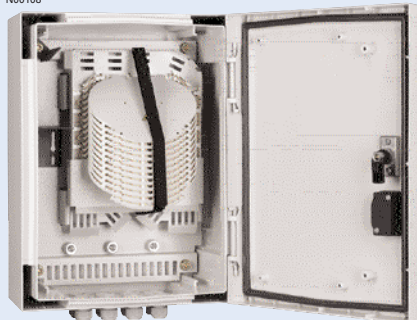
- The interconnect case serves for storing splices and interconnecting fibre optic cables
- The tubeless version is particularly suitable for Single Circuit (SC) and Single Element (SE)
Single Circuit: Distribution of the fibres from one multi-fibre loose tube to several splice cassettes through fibre guiding channels
Single Element: For multi-fibre loose tube management (multi-fibre loose tube upon multi-fibre loose tube)
- Tubeless laying of fibres from the entry to the splice cassette
- Up to 24 individual splice cassettes thanks to the "cassette in a cassette" system
- Enclosure for in-line connections and branch-offs
- Suitable for wall, pole and tower mounting
- Suitable for indoor and outdoor applications
- Suitable for uncut cables

Basic Enclosure LWL-RGV20/GG/M

N00208

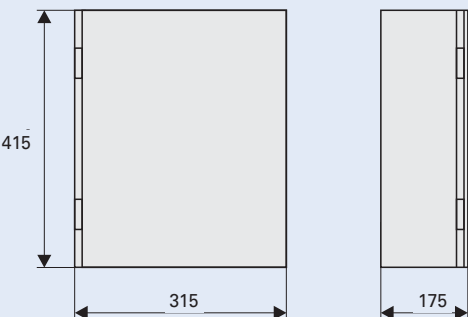


N00108



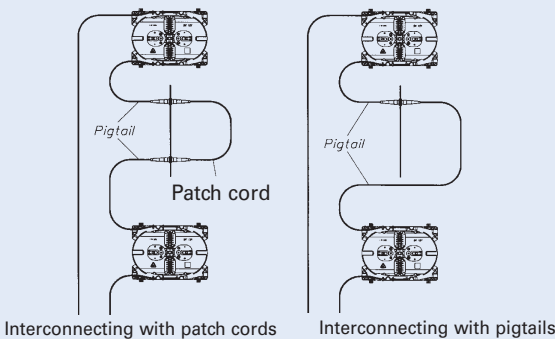
- Door is right-hinged and easy to remove
- Clip-down handle
- Door sealing inside
- Degree of protection IP66 according to EN 60529 with heat-shrinkable entries, IP 54 with PG cable entry
- Strain relief points for central strength member and Kevlar reinforcement
- Storage area for cut/uncut multi-fibre loose tubes
- The removable cassette-ground plate is used for fastening the multi-fibre loose tubes and also to assembly the splice cassette set LWL-SEC23/TL/6SK... onto the mounting plate
- The entry module permits fibre routing to any cassette entry
- Cable entries
 - Heat-shrink cable entries
 - 2 cables Ø 10-25mm, oval entry port, uncut
 - 1 cable Ø 3-16mm
 - 1 cable Ø 6-22mm
 - PG cable entries
 - Ø 8-10mm (PG11)
 - Ø 10-12mm (PG13)
 - Ø 12-14mm (PG16)
 - Ø 14-17mm (PG21)
 - 24x Ø 3mm (PG29) for patch cords
- Splice cassettes
 - 12 x SK123 or SK223
 - Available as sets of 6 splice cassettes each => max. 2 sets
 - Splice cassettes are engaged in a slanted position
 - Swing-type splice cassettes (90°) provide easy access to each splice
- Adapters
 - 12 FC/PC, ST, SC, E2000 or LC duplex
 - 24 SC, E2000 or LC duplex
- Permanent temperature
 - Max. 150°C
- Material
 - Enclosure: Thermoformed, self-extinguishing, halogen-free, glass-fibre reinforced polyester, colour RAL 7035
 - Mounting-, Base plate: Powder-coated sheet steel, RAL 7035
 - Patch-, Fastening angle: Powder-coated sheet steel, RAL 7011
- Weight
 - Approx. 5.1 kg
- Scope of delivery
 - Basic enclosure: 1 Cabinet incl. door, clip-down handle and sealing, 1 mounting plate, 1 base plate, 1 entry module with cover, 1 fastening angle
 - Patch angle: 1 Angle with holes, fastening screws

Dimensions (mm)



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Options for Interconnecting



Rangierarten

Hole Pattern

Connector type	FC/PC	ST	SC simplex (= E2000, LC duplex)

Interconnect Enclosures and Distribution Cabinets

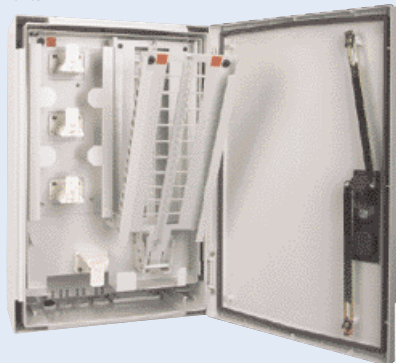
RGV30 Interconnect Enclosure, Individual Assembly, LWL-RGV30...

Description

- The interconnect case serves for splice storage and connecting fibre optic cables
- Enclosure for in-line connections and branch-offs
- Suitable for wall, pole and tower mounting
- Suitable for indoor and outdoor applications
- Suitable for uncut cables

Base Enclosure, LWL-RGV30/GG/M

N04103

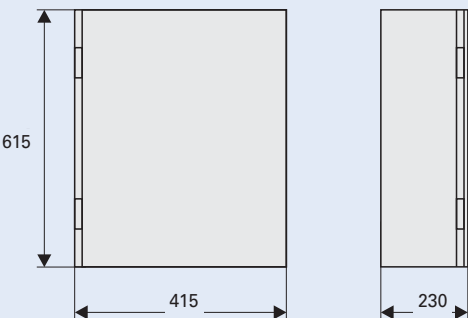


N04203



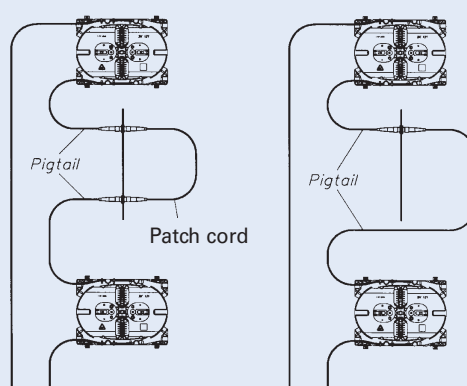
- Door is hinged on the right side and easy to remove
- 3-Point-lock through clip-down handle and bar lock
- Suitable for installation of a semi-cylinder
Length 40mm with an up to 2.5mm protruding cylinder head
- Door sealing inside
- Degree of protection IP66 according to EN 60529 with heat-shrinkable entries, IP54 with PG cable entry
- Separate strain relief points for central strength member and Kevlar reinforcement
- Storage for cut/uncut multi-fibre loose tubes
- Removable and pivoting false floor for mounting the splice cassettes, patch drawers and for reserve lengths storage
- Protected against unintended swing-out through a locking pin
- Storage of reserve lengths for compensating differences in the length of pigtails and patch cords
- Single Circuit (SC) management possible through further accessories LWL-ES/UFM/6455..
- Cable entries
 - Heat-shrink cable entries
 - 2 cables Ø 10-25mm, oval entry port, uncut
 - 1 cable Ø 3-16mm
 - 1 cable Ø 6-22mm
 - PG cable entries
 - Ø 8-10mm (PG11)
 - Ø 10-12mm (PG13)
 - Ø 12-14mm (PG16)
 - Ø 14-17mm (PG21)
 - 24x Ø 3mm (PG29) for patch cords
- Splice cassettes
 - 36 x SK/120/S or 14 x SK/121
 - Splice cassette SK120S engaged in a slanted position
 - Pivoting splice cassette (90°) to provide easy access to each splice
- Adapters
 - 72 FC/PC, ST, SC, E2000 oder LC duplex
- Permanent temperature
 - Max. 150°C
- Colour
 - RAL 7035
- Material
 - Enclosure
 - Thermoformed, self-extinguishing, halogen-free, glass-fibre reinforced polyester
 - Powder-coated aluminium and steel sheet, RAL 7035
 - Inside components
- Weight
 - Approx. 10.75 kg
- Scope of delivery
 - Enclosure with door, clip-down handle and bar lock, sealing and false floor

Dimensions (mm)



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Types of interconnecting



Interconnecting with patch cords

Interconnecting with pigtails

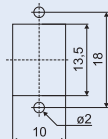
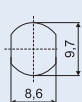
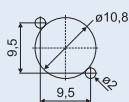
Rangierarten

Hole Pattern

Connector types FC/PC

ST

SC simplex (= E2000, LC duplex)



Interconnect Enclosures and Distribution Cabinets

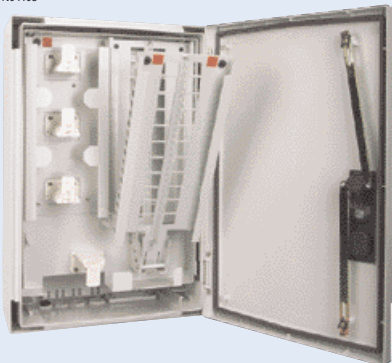
Interconnect Enclosure RGV30TL, Individual Assembly, LWL-RGV30...

Description

- The interconnect case serves for storing splices and interconnecting fibre optic cables
 - The tubeless version is particularly suitable for Single Circuit (SC) and Single Element (SE)
- Single Circuit: Distribution of the fibres from one multi-fibre loose tube to several splice cassettes through fibre guiding channels
- Single Element: For multi-fibre loose tube management (multi-fibre loose tube upon multi-fibre loose tube)
- Tubeless laying of fibres from the entry to the splice cassette
 - Up to 48 individual splice cassettes thanks to the "cassette in a cassette" system
 - Enclosure for in-line connections and branch-offs
 - Suitable for wall, pole and tower mounting
 - Suitable for indoor and outdoor applications
 - Suitable for uncut cables

Basic Enclosure LWL-RGV30/GG/M

N04103

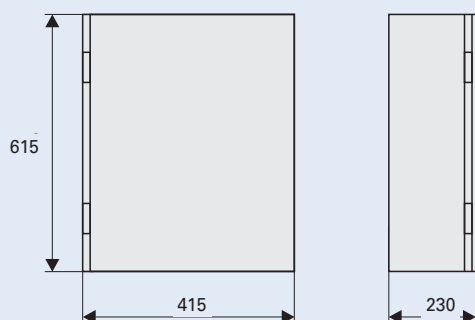


N08003



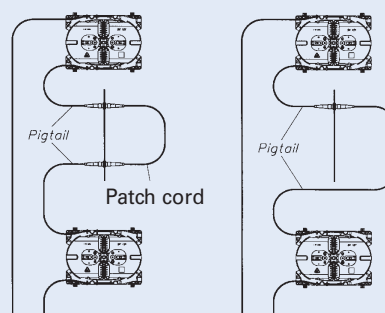
- | | |
|---|--|
| <ul style="list-style-type: none"> • Door is right-hinged and easy to remove • 3-Point-lock through clip-down handle and bar lock • Suitable for installation of a semi-cylinder 40mm long, with an up to 2.5mm protruding cylinder head • Door sealing inside • Degree of protection IP66 according to EN 60529 with heat-shrinkable entries, IP 54 with PG cable entry • Separate strain relief points for central strength member and Kevlar reinforcement • Storage area for cut/uncut multi-fibre loose tubes • Removable and swing-type false floor for mounting the splice cassettes, patch drawers and for storing excess lengths • Protected against unintended swing-out through a rotary bolt latch • Storage area for reserve lengths to compensate differences in the length of pigtails and patch cords | |
| <ul style="list-style-type: none"> • Cable entries | Heat-shrink cable entries
2 cables Ø 10-25mm, oval entry port, uncut
1 cable Ø 3-16mm
1 cable Ø 6-22mm
PG cable entries
Ø 8-10mm (PG11)
Ø 10-12mm (PG13)
Ø 12-14mm (PG16)
Ø 14-17mm (PG21)
24x Ø 3mm (PG29) for patch cords |
| <ul style="list-style-type: none"> • Splice cassettes | 24 x SK123 or SK223
Available as sets of 6 splice cassettes each => max. 4 sets
Splice cassettes are engaged in a slanted position
Swing-type splice cassettes (90°) provide easy access to each splice |
| <ul style="list-style-type: none"> • Adapters | 72 FC/PC, ST, SC, E2000 oder LC duplex |
| <ul style="list-style-type: none"> • Permanent temperature | Max. 150°C |
| <ul style="list-style-type: none"> • Colour | RAL 7035 |
| <ul style="list-style-type: none"> • Material | |
| Enclosure | Thermoformed, self-extinguishing, halogen-free, glass-fibre reinforced polyester |
| Inside components | Powder-coated aluminium and sheet steel, RAL 7035 |
| <ul style="list-style-type: none"> • Weight | Approx. 10.75 kg |
| <ul style="list-style-type: none"> • Scope of delivery | Enclosure with door, clip-down handle and bar lock, sealing, false floor |

Dimensions (mm)



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Options for Interconnecting



Interconnecting with patch cords

Interconnecting with pigtails

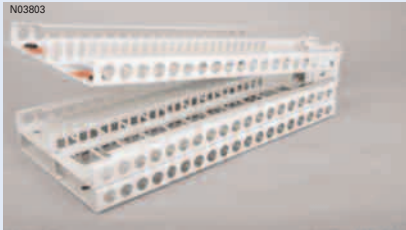
Rangierarten

Hole Pattern

Connector type	FC/PC	ST	SC simplex (= E2000, LC duplex)

Interconnect Enclosures and Distribution Cabinets

Patch Drawer, LWL-RGV30/PL/M



- The patch drawer serves for mounting the adapters
- 72 holes FC/PC, ST, SC or E2000
- A patch drawer is divided into 3 shelves, each featuring 24 holes
- Protected against unintended swing-out through a locking bar
- Suitable for installation in the RGV30 base enclosure
- Material: Powder-coated aluminium sheet, RAL 7035
- Weight: Approx. 1.4 kg
- Scope of delivery: 1 Patch drawer, 3 adapter ledges

Fastening Set for Splice Cassettes SK120S or SK121, LWL-RGV30/BFS/SK12..

- The fastening set is necessary for mounting the splice cassettes SK/120/S or SK/121 onto the false floor
- Max. 36 units for ...-SK/120/S.. or max. 14 units for ...-SK/121..
- Material: Powder-coated aluminium sheet, RAL 7035
- Weight: Approx. 100 g
- Scope of delivery: 1 Fastening set

Fastening Set for Tubeless System, LWL-RGV30/BFS/TL/M

- The fastening set is necessary for mounting the LWL-SEC23/TL/KS/6SK... splice cassette set onto the false floor
- The entry module permits fibre routing to any cassette entry
- Max. 24 units of SK123 or SK223
Available as sets of 6 splice cassettes each => max. 4 sets
- Material: Powder-coated aluminium, RAL 7035
- Weight: Approx. 100 g
- Scope of delivery: 1 Fastening angle, 1 entry module with cover

Fastening Brackets, ZPV-BL



- For fastening purposes outside the enclosure
- Fastening brackets to be screwed onto the base frame
- Material: Galvanized and passivated steel sheet

Steel Tower Fastening Set, LWL-RGV30/SMB

- For mounting an RGV30 Interconnect Enclosure onto the cross-struts of a high-voltage line tower
- Lower ledge for fixed mounting
- By turning, the upper ledge can be adjusted to the slanted cross-struts
- Material: Powder-coated aluminium sheet, RAL 7035
- Scope of delivery: 2 Ledges, fastening material

Strain Relief Set, LWL-RGV30/ZEL

- For additional, external strain relief of cables
- To be mounted onto the base plate of the enclosure
- Cables are fixed onto a rail by means of strain relief clamps
- Material: Powder-coated aluminium sheet, RAL 7035
- Scope of delivery: 2 Angles, 1 rail, fastening material

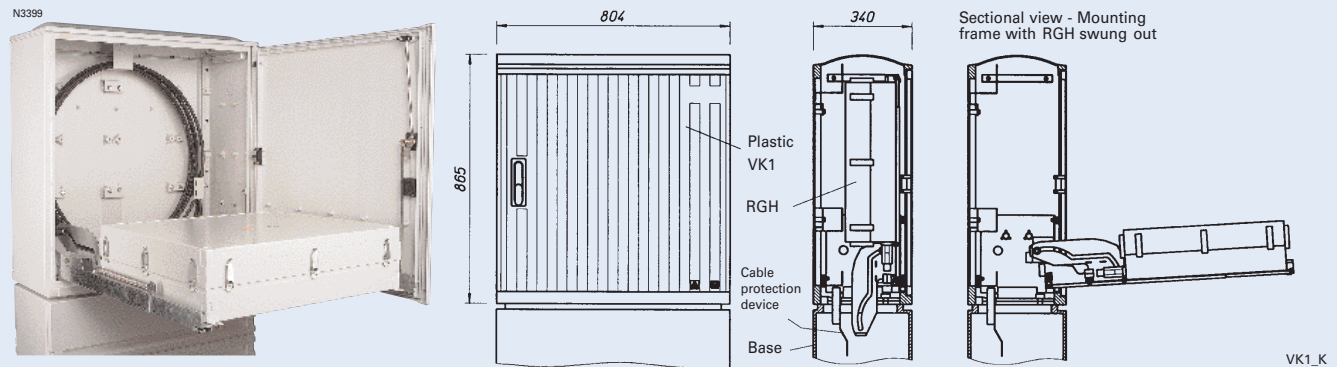
Rain Run-off Roof, LWL-RGV30/RD

- For additional protection of outdoor applications
- To be mounted onto the top of the enclosure
- In the event of retrofitting, 2 holes need to be drilled
- Material: Powder-coated aluminium sheet, RAL 7035
- Scope of delivery: 1 Rain run-off roof, fastening material

Interconnect Enclosures and Distribution Cabinets

Distribution Cabinets

Plastic Distribution Cabinet VK1-SO-K-SH/00



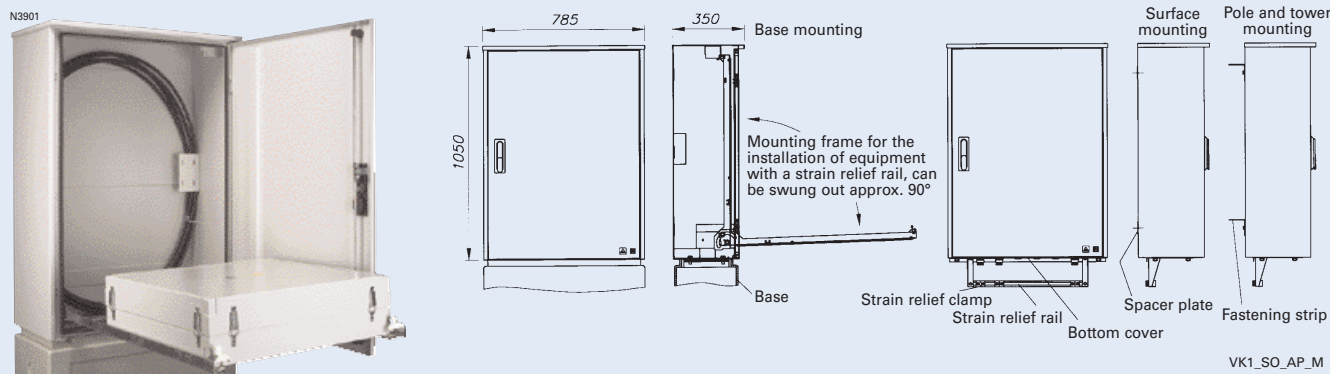
- Distribution cabinet for outdoor base mounting (Austrian standard ÖNORM E 4382 size S5 or DIN 43629 size 1)
- Junction for several fibre optic cables
- 90° swing-type mounting frame for mounting an RGH6455 interconnect enclosure
- Additional adapter rails and a mounting plate for wall mounting allow the installation of OM1 and KM3 sleeves
- Cable insertion at the bottom, through the base
- Cable protection plate for orderly insertion and laying of the cables
- Support frame for approx. 15 m cable reserve at the rear
- Door with clip-down handle for semi-cylinder, 40 mm long and up to 2.5 mm protruding cylinder head
- Degree of protection: IP43
- Material
Cabinet and door: Glass-fibre reinforced polyester, RAL 7035
Inside elements: Sheet steel, galvanized or powder-coated, RAL 7035
- Weight: Approx. 36 kg
- Scope of delivery: 1 Cabinet, 1 door (pre-assembled), 1 mounting frame, 1 strain relief rail, 1 cable protection plate, 1 clip-down handle

Base for VK1-SO

- Base for mounting the distribution cabinet VK1-SO-K-SH/00
- Fastening dimensions according to Austrian standard ÖNORM E4382 size S5 or DIN 43629 size 1
- Height 900 mm
- C-profile rail for strain relief of fibre optic tubes with cable clips
- Sealing of the fibre optic tubes with UF1 universal fitting or RAS tube end closure
- Material: Glass-fibre reinforced polyester, RAL 7035
- Weight: Approx. 18 kg
- Scope of delivery: 1 Base, 1 C-profile rail, 4 M12 x 30mm screws

Interconnect Enclosures and Distribution Cabinets

Universal Distribution Cabinet VK1-SO/AP/M-SH/00



- Distribution cabinet for outdoor base mounting (Austrian standard ÖNORM E 4382 size S5 or DIN 43629 size 1), surface mounting and pole/tower mounting
- Junction for several fibre optic cables
- 90° swing-type mounting frame for mounting an RGH6455 interconnect enclosure
- Additional mounting rails and a mounting plate for wall mounting allow the installation of OM1 and KM3 sleeves
- Insertion of cables at the bottom, through the base, in case of wall or pole/tower mounting insertion through bottom plates
- Different bottom plates for surface mounting and pole/tower mounting
- Support for approx. 15 m cable reserve at the rear
- Door with clip-down handle for semi-cylinder, 40 mm long and up to 2.5 mm protruding cylinder head
- Degree of protection: IP43
- Material
Cabinet and door: Powder-coated aluminium, RAL 7035
Inside elements: Sheet steel, galvanized or powder-coated, RAL 7035
- Weight: Approx. 45 kg
- Scope of delivery: 1 Cabinet, 1 door (pre-assembled), 1 mounting frame, 1 strain relief rail, 1 clip-down handle

Base for VK1-SO/AP/M

- Base for mounting the VK1-SO/AP/M-SH/00 distribution cabinet
- Fastening dimensions according to Austrian standard ÖNORM E4382 size S5 or DIN 43629 size 1
- Height 950 mm, ground excavation depth 600 mm
- C-profile rail for strain relief of fibre optic tubes with cable clips
- Sealing of the fibre optic tubes with UF1 universal fitting or RAS tube end closure
- Material: Polyester, RAL 7032
- Weight: Approx. 20 kg
- Scope of delivery: 1 Base, 1 C-profile rail, 4 M12 x 30mm screws

Bottom Plates

- Bottom plates for insertion of cables in case of surface mounting or pole/tower mounting
- Different versions for surface mounting and pole/tower mounting with the suitable fixing devices and external strain relief (aluminium or plastic clamps)
- Versions:

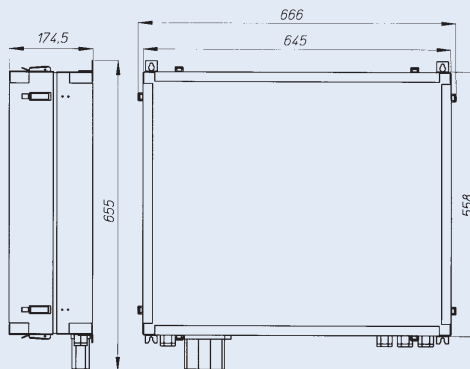
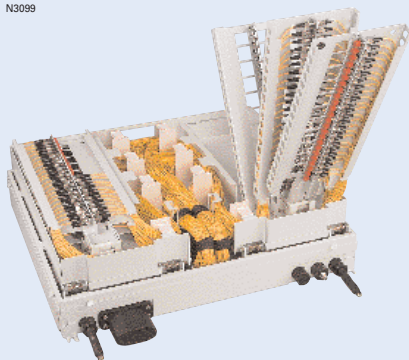
Bottom plate - blank	Cable entries to be drilled at site as required
Bottom plate 3P213B21	3x PG21 (cable ø 10-18 mm), 3x PG21 blank
Bottom plate, split	Split entry for uncut cables of max. 25 mm
Bottom plate, split, 1P212B21	Split entry for uncut cables of max. 25 mm, 1x PG21 (cable ø 10-18 mm), 2x PG21 blank

Interconnect Enclosures and Distribution Cabinets

Interconnect Enclosures

Interconnect Enclosure RGH6455 144..

N3099

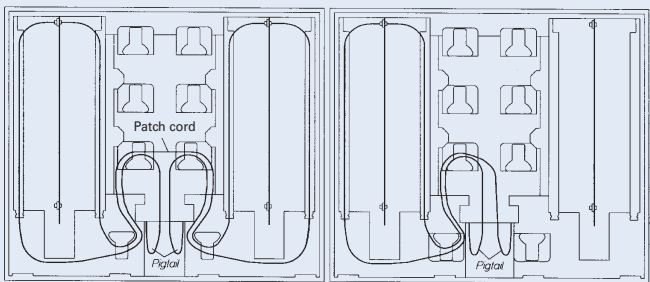


RGH6455

- The interconnect enclosure serves for storing splices and for interconnecting fibre optic cables
- Enclosure allowing easy access to connections and branch-offs
- Suitable for wall and duct mounting as well as for installation in the cabinet (VK1-...)
- Swing-type false floor with storage frame for patch cord excess lengths and 6 x 24 swing-type adapter drawers
- False floor and adapter drawers are secured through snap-in closures
- Lower level for cable entries, storage of excess lengths of multi-fibre loose tubes, 2 tiers of splice cassettes
- Delivered with cable entries closed through removable blanks
- For cable insertion use either an oval cable entry set (included in the scope of delivery) and/or heatshrinkable LWL-KDF/S/3/16 cable entries

• Entries	2 Cables 10-25 mm, uncut 4 Cables 3-16mm
• Splice cassettes	56x SK/120/S
• Adapters	max. 144x FC/PC, SC or E2000
• Degree of protection	IP66
• Material	
Enclosure	Powder-coated aluminium, RAL 7035
Adapter strip	Powder-coated aluminium, RAL 7011
Sealing	EPDM
• Weight	Approx.16.5 kg
• Scope of delivery	1 Enclosure with cover, 4 16-mm heat-shrinkable blanking plugs, 1 oval cable entry, 1 oval cable entry set, 24 SK120S splice cassettes, 48 SRH8 splice protection holders, 8 patchcord guides, 250g drying agent, 4 velcro straps, 1 copy of Instructions for Installation

Options for Interconnecting



Interconnecting with patch cords

Interconnecting with pigtails

Rangier_RGH6455

Hole Pattern

Connector type	FC/PC	SC or E2000

Interconnect Enclosures and Distribution Cabinets

Interconnect Enclosure - Tubeless System (TL)

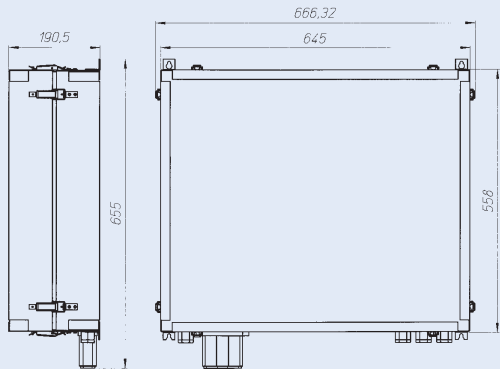
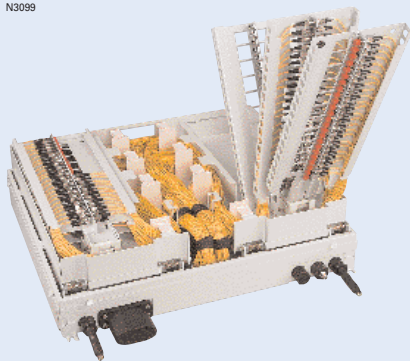
Interconnect Enclosure RGH6455 TL, Individual Assembly, LWL-RGH6455...

Description

- The interconnect enclosure serves for storing splices and interconnecting fibre optic cables
- The tubeless version is particularly suitable for Single Circuit (SC) and Single Element (SE)
Single Element: For multi-fibre loose tube management (multi-fibre loose tube upon multi-fibre loose tube)
Single Circuit: Distribution of the fibres from one multi-fibre loose tube to several splice cassettes through fibre guiding channels
- Tubeless laying of fibres from the entry to the splice cassette
- Up to 96 individual splice cassettes thanks to the "cassette in a cassette" system
- Enclosure offers easy access to in-line connections and branch-offs
- Suitable for wall and duct mounting as well as for installation in an additional outer cabinet (VK1-...)
- Suitable for uncut cables

Basic Enclosure LWL-RGH6455/TL/GG/M

N3099

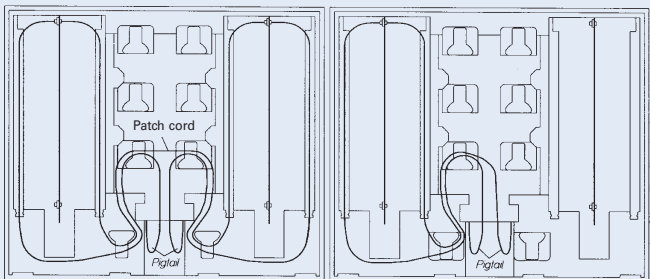


RGH6455_TL_Mass

- Swing-type false floor with storage area for patch cord excess lengths, can accommodate 2 patch drawer sets
- False floor and patch drawers are secured through quick opening devices
- Lower level for cable entries, storage of excess lengths of multi-fibre loose tubes, 2 tiers of splice cassettes
- The entry module permits fibre routing to any cassette entry
- Delivered with cable entries closed through removable blanks
- For cable insertion use either an oval cable entry set (included in scope of delivery) and/or LWL-KDF/S/3/16 heat shrinkable cable entries

• Cable entries	2 Cables 10-25 mm, uncut 4 Cables 3-16mm
• Splice cassettes	48x SK123 or SK223
Available as sets of 6 splice cassettes each => max. 8 sets Splice cassettes are engaged in a slanted position Swing-type splice cassettes (90°) provide easy access to each splice	
• Adapters	144x FC/PC, ST, SC or E2000
• Degree of protection	IP66
• Material	
Enclosure	Powder-coated aluminium, RAL 7035
Adapter strip	Powder-coated aluminium, RAL 7011
Sealing	EPDM
• Weight	Approx. 17 kg
• Scope of delivery	1 Enclosure with cover, 4 16mm heat-shrinkable blanking plugs, 1 oval cable entry, 1 oval cable entry set, 2 entry modules with cover, 8 patchcord guides, 250g drying agent, 4 velcro straps, 1 copy of Instructions for Installation

Options for Interconnecting



Interconnecting with patch cords

Interconnecting with pigtails

Interconnect enclosure_RGH6455

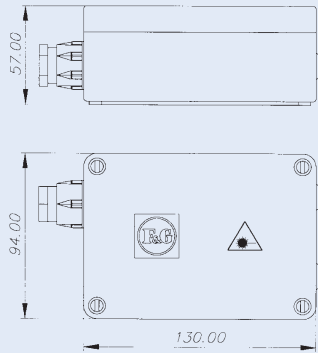
Hole Pattern

Connector type	FC/PC	ST	SC or E2000

Termination Boxes

Distribution Enclosures

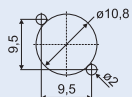
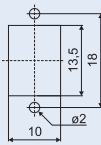
Distribution Enclosure OM10-4..



OM10

- The distribution enclosure serves as a terminal for fibre optic cables routed to connectors and for storing splices
 - Small termination box, especially suitable where space is limited
 - Suitable for indoor wall-mounting and installation in moist rooms
 - Pull-out splice storage frame with splice protection holders
 - Installation point for strain relief element (Kevlar)
 - Provides sufficient space for multi-fibre loose tube reserves under the splice storage frame
- | | |
|---|--|
| • Entries | 1 PG13 cable $\varnothing$ 6-12 mm |
| • Splice protection holder | 1 SRH8 or 1 SWH12 |
| • Adapters | 4x FC/PC, ST, SC simplex, E2000 or LC duplex |
| • Degree of protection of the empty enclosure | IP64 |
| • Material | |
| Enclosure | Polystyrene, similar to RAL 7035 |
| Splice storage frame | Powder-coated aluminium, RAL 7035 |
| PG Cable entry gland | Plastic |
| • Weight | Approx. 0.7 kg |
| • Scope of delivery | |
| 1 Enclosure, 1 splice storage frame, 1 copy of Instructions for Installation, 1 PG13 cable gland, 2 cable tie wraps, 2 PC121 pigtail clips, 1 SRH8/SWH12 splice protection holder | |

Hole Pattern

Connector type	FC/PC	ST	SC simplex (= E2000, LC duplex)
			

Termination Boxes

Distribution Enclosures OM, Individual Assembly, LWL...

Description of OM2 and OM3 Distribution Enclosures

- These distribution enclosures serve as a terminal for a fibre optic cable routed to a connector and for storing splices
- Small termination boxes, particularly suitable where space is limited
- Suitable for indoor wall-mounting and installation in moist rooms
- For easy mounting, the base plate with splice cassette is removable
- Installation point for strain relief element (Kevlar)
- Provides sufficient space for storing multi-fibre loose tube reserves under the splice cassette
- A wall mounting set is available as accessory for easy wall mounting
- Degree of protection of the empty enclosure: IP66
- Temperature resistance: -40°C ... +120°C (UV resistant)
- Material

Enclosure: Polycarbonate similar to RAL 7035

Base plates: Powder-coated aluminium, RAL 7035

Weight

OM2: Approx. 1 kg

OM3: Approx. 1.3 kg

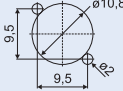
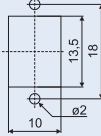
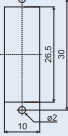
Scope of delivery

Basic enclosure: 1 Enclosure, 1 base plate, 1 copy of Instructions for Installation

Adapter holes: according to the holes in the basic enclosure

Cable entry: 1 Hole in the basic enclosure, 1 PG cable gland, 1 PG counter nut

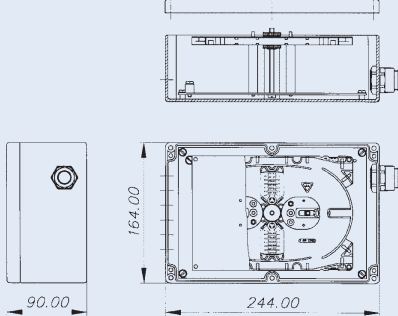
Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex
				

OM 2 Basic Enclosure LWL-OM2/GG/M



OM2_a



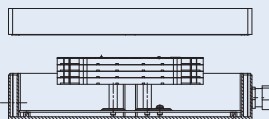
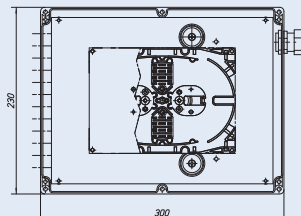
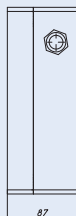
- Cable entries
 - 1 or 2 cables
 - PG11 cable $\varnothing$ 5-10 mm
 - PG13 cable $\varnothing$ 6-12 mm
 - PG16 cable $\varnothing$ 8-14 mm
 - PG21 cable $\varnothing$ 10-18 mm
- Splice cassettes
 - 1 x SK121
- Adapters
 - 4 or 8 fibres FC/PC, ST; 12 fibres SC simplex, SC duplex or E2000; 24 fibres LC duplex

Termination Boxes

OM 3 Basic Enclosure LWL-OM3/GG/M

N01510

OM3



- Cable entries 1, 2, 3 or 4 cables
PG11 cable $\varnothing$ 5-10 mm
PG13 cable $\varnothing$ 6-12 mm
PG16 cable $\varnothing$ 8-14 mm
PG21 cable $\varnothing$ 10-18 mm
- Splice cassettes Max. 4 x SK121
- Adapters 12 or 16 fibres FC/PC, ST; 12 fibres SC simplex/E2000; 24 fibres SC simplex/E2000 or LC duplex; 48 fibres LC duplex

Accessories for OM2 and OM3 Distribution Enclosures

PG Cable Entry LWL-KDF/D..

- For sealing cables with a PG cable gland
- Cable diameters
 - LWL-KDF/D/PG11.. 5 to 10 mm
 - LWL-KDF/D/PG13.. 6 to 12 mm
 - LWL-KDF/D/PG16.. 8 to 14 mm
 - LWL-KDF/D/PG21.. 10 to 18 mm
- Degree of protection: IP68
- Material: Polyamide
- Weight: Approx. 15g
- Scope of delivery: 1 PG cable gland, 1 counternut

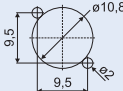
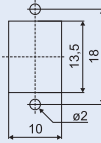
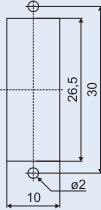
Termination Boxes

Distribution Enclosure IML, Individual Assembly, LWL-...

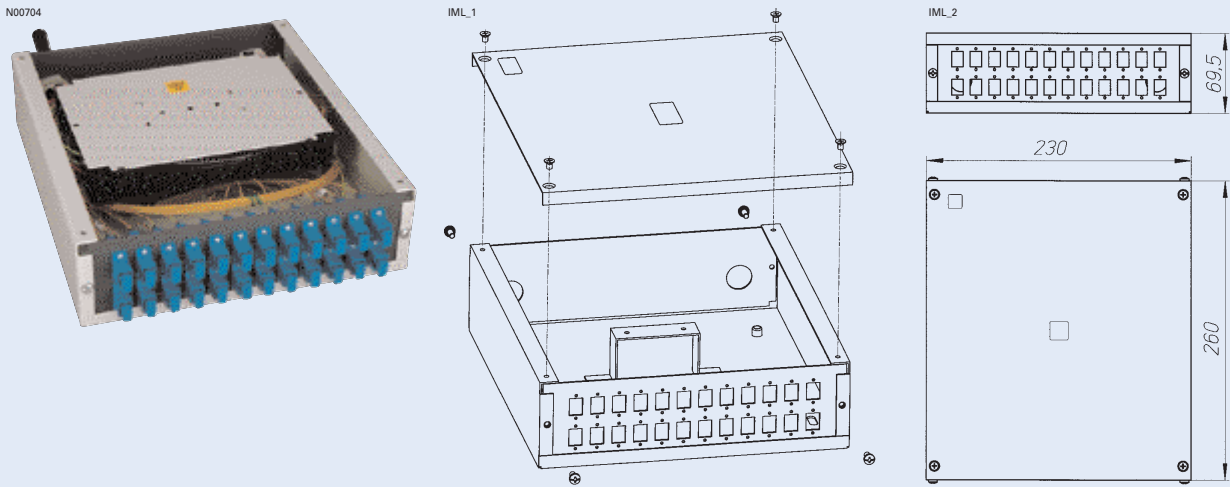
Description of IML

- The distribution enclosures serves as a terminal for a fibre optic cable routed to a connector and for storing splices
- Small termination boxes, particularly suitable where space is limited
- Suitable for indoor wall-mounting
- Robust metal enclosure
- Installation point for strain relief element (Kevlar)
- Provides sufficient space for storing multi-fibre loose tube reserves under the splice cassette
- Degree of protection of the enclosure: IP30
- Material
 - Enclosure: Powder-coated sheet steel, RAL 7035
 - Plates: Powder-coated sheet steel, RAL 7011
- Weight: approx. 2.3 kg
- Dimensions WxHxD: approx. 230x70x260 mm
- Scope of delivery
 - Basic enclosure: 1 Enclosure consisting of trough and cover
 - Adapter plate: 1 Front plate with holes (adapters not included)
 - Cable entry plate: 1 Entry plate for 2 cables, 2 PG-cable glands, 1 blind plug, incl. counternuts

Hole Pattern

Connector type	FC	ST	SC simplex (=E2000, LC duplex)	SC duplex
				

IML Basic Enclosure LWL-IML/GG/M



- | | |
|--------------------|---|
| • Cable entries | 2 cable glands of the same type
PG11 cable $\varnothing$ 8-10 mm
PG13 cable $\varnothing$ 10-12 mm
PG16 cable $\varnothing$ 12-14 mm |
| • Splice cassettes | 4 small splice cassettes (SK120S) or 3 large splice cassettes (SK121) |
| • Adapters | 12 or 24 fibres FC, ST, SC simplex, SC duplex, E2000
24 or 48 fibres LC duplex |

Termination Boxes

Distribution Enclosure IM, Individual Assembly, LWL-...

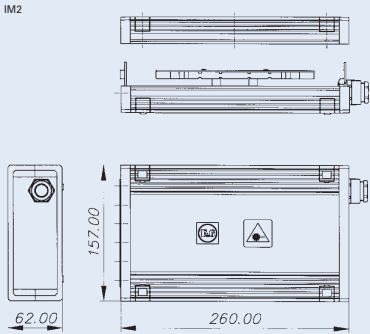
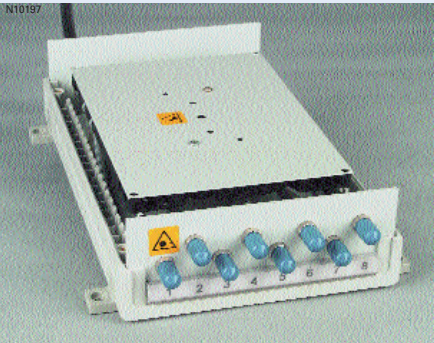
Description of IM2, IM3 and IM3/1 Distribution Enclosures

- These distribution enclosures serve as a terminal for a fibre optic cable routed to a connector and for storing splices
- Small termination boxes, particularly suitable where space is limited
- Suitable for indoor wall-mounting
- For easy mounting, the base plate with splice cassette is removable
- Installation point for strain relief element (Kevlar)
- Provides sufficient space for storing multi-fibre loose tube reserves under the splice cassette
- A set of wall brackets is available as accessory for easy wall mounting
- Degree of protection of the empty enclosure: IP40
- Material
 - Enclosure: ABS similar to RAL 7035
 - Base plate: Powder-coated aluminium, RAL 7035
 - Adapter-, Cable entry plate: ABS similar to RAL 7035
- Weight
 - IM2: Approx. 0.9 kg
 - IM3: Approx.1.4 kg
 - IM3/1: Approx. 2 kg
- Scope of delivery
 - Basic enclosure: 1 Enclosure, 1 base plate, 1 copy of Instructions for Installation
 - Adapter plate: 1 Front plate with holes (without adapters)
 - Cable entry plate: 1 Cable entry plate, PG cable glands, PG counternuts

Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex

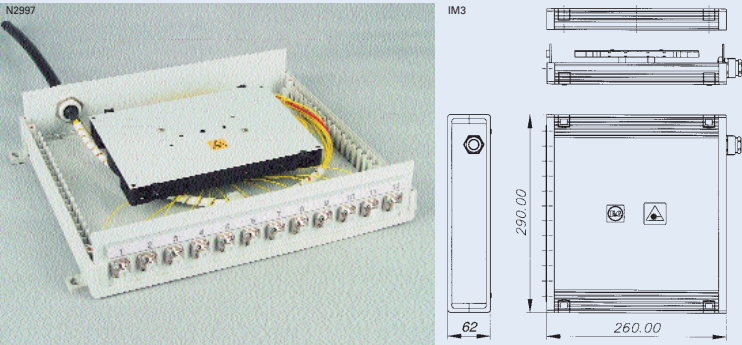
IM2 Basic Enclosure LWL-IM2/GG/M



- Cable entries
 - 1 or 2 cables
 - PG11 cable $\varnothing$ 8-10 mm
 - PG13 cable $\varnothing$ 10-12 mm
 - PG16 cable $\varnothing$ 12-14 mm
- Splice cassettes
 - 1 x SK121
- Adapters
 - 4 or 8 fibres FC/PC, ST, SC simplex, SC duplex, E2000
 - 8 or 16 fibres LC duplex

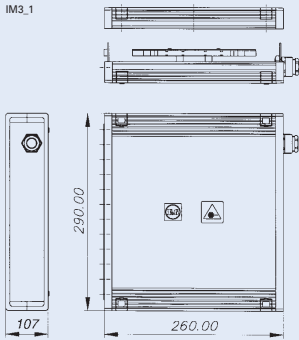
Termination Boxes

IM3 Basic Enclosure LWL-IM3/GG/M



- | | |
|--|---|
| <ul style="list-style-type: none"> • Cable entries | 1 or 2 cables
PG11 cable ø 8-10 mm
PG13 cable ø 10-12 mm
PG16 cable ø 12-14 mm |
| <ul style="list-style-type: none"> • Splice cassettes | Max. 2 x SK121 |
| <ul style="list-style-type: none"> • Adapters | 8, 12 or 16 fibres FC/PC, ST, SC simplex, SC duplex, E2000
16, 24 or 32 fibres LC duplex |

IM3/1 Basic Enclosure LWL-IM3/1/GG/M



- | | |
|--|--|
| <ul style="list-style-type: none"> • Cable entries | 1, 2 or 3 cables
PG11 cable ø 8-10 mm
PG13 cable ø 10-12 mm
PG16 cable ø 12-14 mm |
| <ul style="list-style-type: none"> • Splice cassettes | Max. 4 x SK121 |
| <ul style="list-style-type: none"> • Adapters | 24 or 36 fibres FC/PC, ST, SC simplex, SC duplex, E2000
48 or 72 fibres LC duplex |

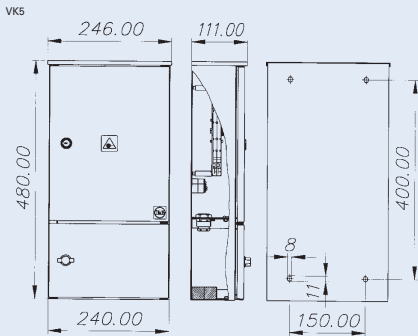
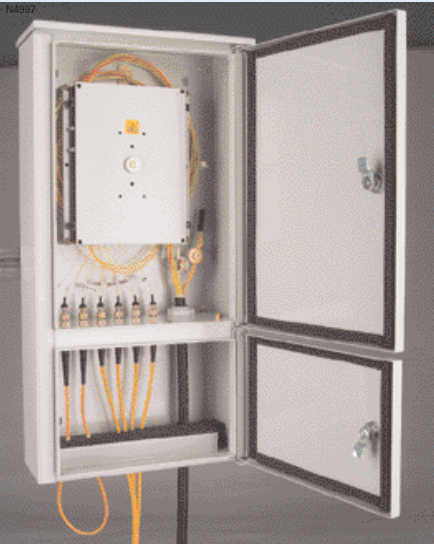
Termination Boxes

Distribution Enclosure VK5, Individual Assembly, LWL-...

Description

- The VK5 distribution enclosure serves as a terminal for a fibre optic cable routed to a connector and for storing splices
- Small termination box, particularly suitable where space is limited
- Suitable for indoor wall-mounting, in particular for robust industrial applications
- Separate access to splice and plug connections

VK5 Basic Enclosure LWL-VK5/.T/GG/M



- Split cabinet available with 1 or 2 doors
- Doors are right-hinged, optionally either with lock or latch
- 2 Areas
 - top area for splicing
 - bottom area for patching
- Split foamed material entry strip for sealing the patch cords
- Strain relief and sealing of the cables on an intermediate plate with PG cable glands
- For easy mounting, the base plate with splice cassette is removable
- Installation points for central strength member and strain relief element (Kevlar)
- Provides sufficient space for storing multi-fibre loose tube reserves under the splice cassette
- Degree of protection IP53
- Cable entries
 - 1 or 2 cables
 - PG11 cable $\varnothing$ 8-10 mm
 - PG13 cable $\varnothing$ 10-12 mm
 - PG16 cable $\varnothing$ 12-14 mm
- Splice cassettes Max. 2 x SK121
- Adapters
 - 12 fibres FC/PC, ST, SC simplex, E2000
 - 24 fibres LC duplex
- Material
 - Basic enclosure Powder-coated sheet steel, RAL 7035
 - Base plate Powder-coated aluminium, RAL 7035
- Weight Approx. 6 kg
- Scope of delivery
 - Basic enclosure: 1 Cabinet, 1 base plate, 3 plastic twisting clamps, 1 or 2 doors
 - Closure: 1 Lock or latch, fixing material, 1 key
 - Intermediate plate: 1 Intermediate plate with holes, fastening screws

Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)

Termination Boxes

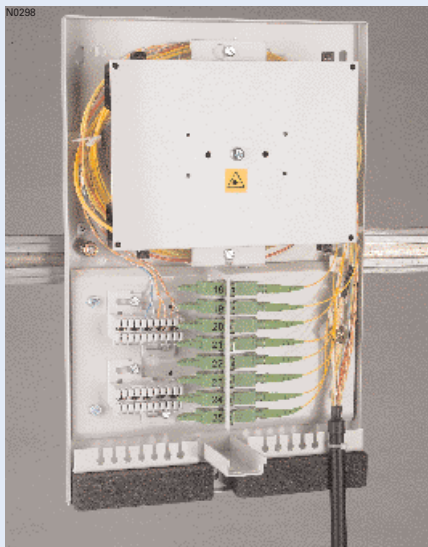
House Distribution Enclosure

House Distribution Enclosure HEV10, Individual Assembly, LWL-...

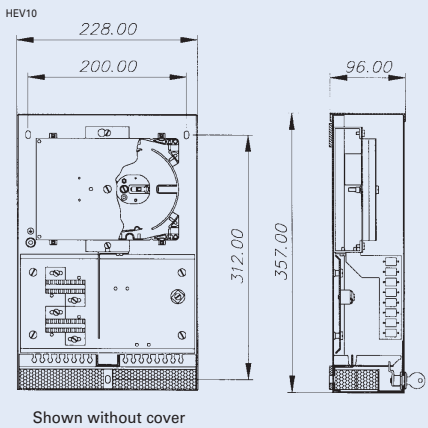
Description

- The house distribution enclosure serves as a terminal for a fibre optic cable routed to a connector, for storing splices and connecting copper data cables
- Especially designed for hybrid cables
- Suitable for indoor wall mounting
- Suitable for uncut cables

Basic Enclosure HEV10, LWL-HEV10/GG/M



- Lockable hood (lock)
- Cable entry through a split foamed material strip
- Cable strain relief through tie wraps
- Installation point for strain relief element (Kevlar)
- For ease of installation, the base plate with the splice cassette can be removed
- Provides sufficient space to store multi-fibre loose tube reserves under the splice cassette
- Mounting plate for fastening LSA PLUS terminal rails
- Tightness Dust-proof
- Cable entries 2 Cables of up to $\varnothing$ 16 mm, uncut
- Splice cassettes Max. 4 x SK121
- Adapters 8 or 12 fibres FC/PC, ST, SC simplex, E2000
16 or 24 fibres LC duplex
- LSA PLUS terminal rails Max. 20 dual wires (4x 5 dual wires)
- Material Powder-coated aluminium, RAL 7035
- Weight Approx. 2 kg
- Scope of delivery
Basic enclosure: 1 Base plate, 1 hood, 1 mounting plate, 1 split foamed material cable entry, 1 copy of Instructions for Installation
Adapter angle: 1 Angle, fastening screws
LSA PLUS terminal rail: 1 LSA PLUS terminal rail - 5 dual wires, fastening screws



Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)

Termination Boxes

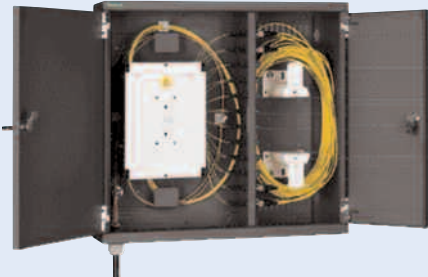
Wall-mounted Splice Box WSB10, Individual Assembly, LWL-...

Description

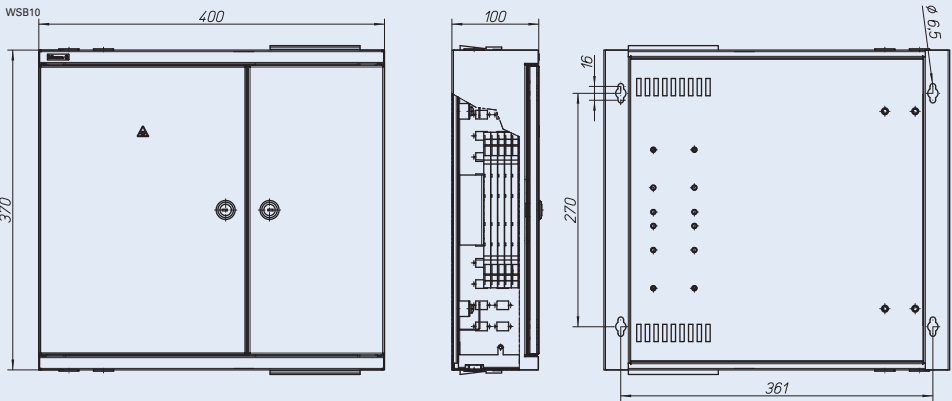
- The wall-mounted splice box serves as a terminal for a fibre optic cable routed to a connector and for storing splices
- Enclosure for in-line connections and branch-offs
- Compact enclosure which provides a space-saving facility and an optimal protection of the fibres
- Suitable for indoor wall-mounting, in particular as a floor distributor
- Separate access to splice and plug connections

Basic Enclosure, LWL-WSB10/.S/GG/M

N00308



- Enclosure optionally with 1 or 2 locks (single-door locking)
- 2 Areas
 - left area for splicing
 - right area for patching
- Patch cord entry/exit covered by a brush strip
- Patch cord guides for routing the patch cords properly
- Strain relief points for central strength member and Kevlar reinforcement
- Provides sufficient space for storing multi-fibre loose tube reserves under the splice cassette
- Cable entries
 - Splicing area:
 - 1 or 2 cables with cable gland (on top and bottom)
 - M16 cable Ø 5-10 mm
 - M20 cable Ø 8-13 mm
 - M25 cable Ø 11-15 mm
 - Patching area:
 - Rectangular opening 100 x 30 mm with brush strip (on top and bottom)
- Splice cassettes
 - Max. 6 x SK121
- Adapters
 - 24 or 48 fibres FC/PC, ST, SC simplex, SC duplex, E2000
 - 48 or 96 fibres LC duplex
- Material
 - Basic enclosure, Adapter plate Powder-coated sheet steel, RAL 7011
- Weight
 - Approx. 3.9 kg
- Scope of delivery
 - Basic enclosure: 1 Enclosure incl. doors, 1 or 2 locks with keys, 2 patchcord guides, 2 brush strips, 4 blind plugs
 - Adapter plate: 1 Adapter plate with holes, fixing material



Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex

Termination System for 19" Technology

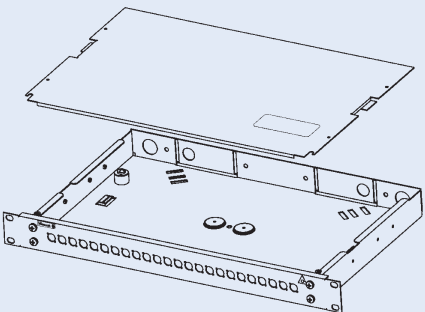
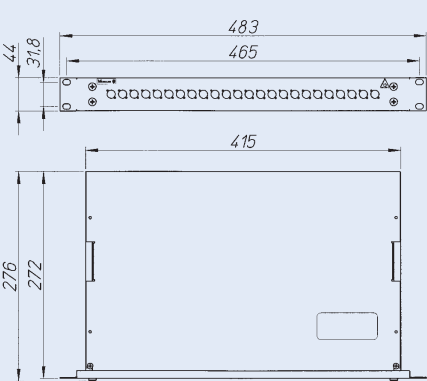
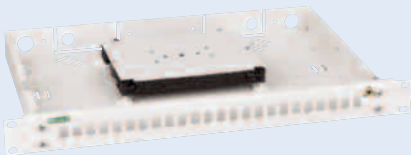
19" Fibre Optic Patch Panels, 19" Fibre Optic Cable Storage Frame

19" Patch Panel, 1U, Fixed Version, Empty, DNW-SEL/19H1

N01606

Mas_DNW_SEL_19H1

DNW_SEL_19H1



- The 19" patch panel serves as a terminal for a fibre optic cable routed to a connector, and for storing splices
- Empty enclosure (without adapters and pigtails)
- Front handles for fixing the NWS-KFS/19 cable management system are available as accessory
- Two removable blanks at the rear for mounting cable entry angles or cover plates
- Installation point for strain relief (central strength member, Kevlar) of the cable
- For changing the adapters, the removable cover can be pushed back
- Capacity
 - Straight entries with cable glands: 2 cables Ø 5-15 mm (M20) and 2 STVR9 patch panel connection tubes
 - Slanted entries with cable entry angles: 2 cables Ø 5.5-18.5 mm (M12-M25) or 4 uncut cables of up to 16 mm
 - Splice cassettes: 4x DNW-SK/121
 - Adapters: 6-24 x FC/PC, ST, SC duplex, SC simplex, E2000
- Numbering stickers included
- Version: Fixed
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Weight: Approx. 3.3 kg
- Scope of delivery: 1 Basic enclosure, 1 cover, 1 front plate, 4 plastic twisting clamps, fixing material, splice cassettes and splice protection holders see table

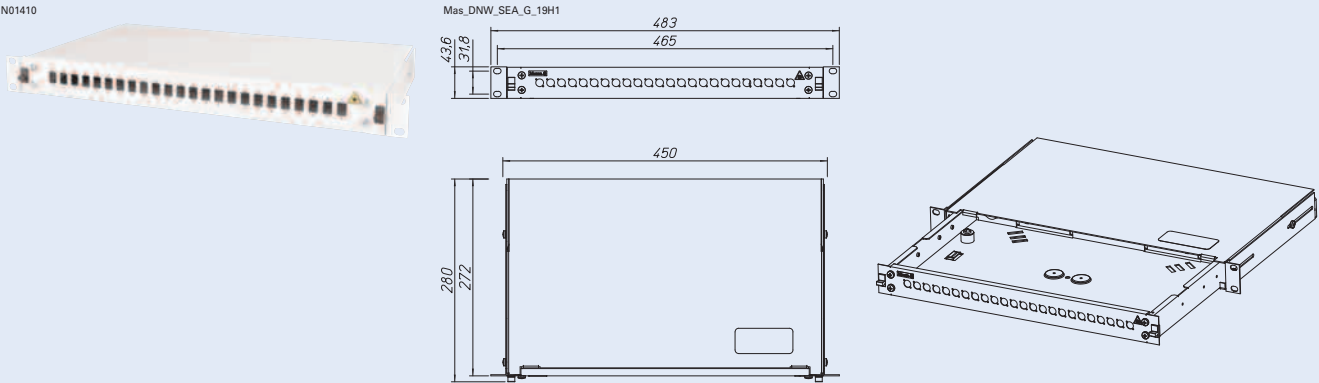
No. of Fibres	Splice Cassettes DNW-SK/121	Splice Protection Holders DNW-SRH12
12	1	2
24	2	4
48	4	8

Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex

Termination System for 19" Technology

19" Patch Panel, 1U, Pull-out Version - Sliding on a Metal Shelf and Recessable, Empty, DNW-SEA/G/19H1



- The 19" patch panel serves as a terminal for a fibre optic cable routed to a connector, and for storing splices
 - Empty enclosure (without adapters and pigtails)
 - Front handles for fixing the NWS-KFS/19 cable management system are available as accessory
 - Two removable blanks at the rear for mounting cable entry angles or cover plates
 - Installation point for strain relief (central strength member, Kevlar) of the cable
 - Capacity
 - Straight entries with cable glands: 2 cables Ø 5-15 mm (M20) and 2 STVR9 patch panel connection tubes
 - Slanted entries with cable entry angles: 2 cables Ø 5.5-18.5 mm (M12-M25) or 4 uncut cables of up to 16 mm
 - Splice cassettes: 4x DNW-SK/121
 - Adapters: 6-24 x FC/PC, ST, SC duplex, SC simplex, E2000
 - Numbering stickers included
 - Version: Pull-out version - sliding on a metal shelf; plug-in module can be pulled out and removed; snap-in locks for locking the plug-in module
 - Recessable; plug-in module is continuously recessable from 0 to 60 mm
 - Material: Sheet steel, powder-coated, RAL 7035 pale grey
 - Weight: Approx. 4.2 kg
 - Scope of delivery: 1 Basic enclosure, 1 front plate, 4 plastic twisting clamps, fixing material, splice cassettes and splice protection holders see table
- | No. of Fibres | Splice Cassettes DNW-SK/121 | Splice Protection Holders DNW-SRH12 |
|---------------|-----------------------------|-------------------------------------|
| 12 | 1 | 2 |
| 24 | 2 | 4 |
| 48 | 4 | 8 |

Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex

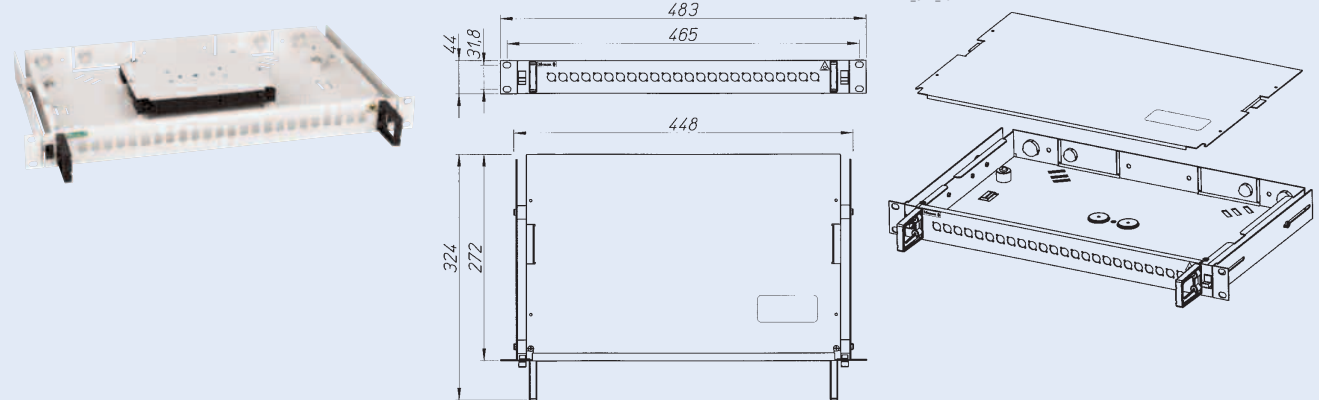
Termination System for 19" Technology

19" Patch Panel, 1U, Recessable Version, Empty, DNW-SER/19H1

N01806

Mas_DNW_SER_19H1

DNW_SER_19H1



- The 19" patch panel serves as a terminal for a fibre optic cable routed to a connector, and for storing splices
- Empty enclosure (without adapters and pigtails)
- Front handles for fixing the NWS-KFS/19 cable management system are included in the scope of delivery
- Two removable blanks at the rear for mounting cable entry angles or cover plates
- Installation point for strain relief (central strength member, Kevlar) of the cable
- For changing the adapters, the removable cover can be pushed back
- Holes for straight entries are closed with blind plugs
- Capacity
 - Straight entries with cable glands: 2 cables Ø 5-15 mm (M20) and 2 STVR9 patch panel connection tubes
 - Slanted entries with cable entry angles: 2 cables Ø 5.5-18.5 mm (M12-M25) or 4 uncut cables of up to 16 mm
- Splice cassettes: 4x DNW-SK/121
- Adapters: 6-24 x FC/PC, ST, SC duplex, SC simplex, E2000
- Numbering stickers included
- Version: Recessable; plug-in module is continuously recessable from 0 to 60 mm
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Weight: Approx. 3.5 kg
- Scope of delivery: 1 Basic enclosure, 1 cover, 1 front plate, 4 plastic twisting clamps, fixing material, 2 front handles, 4 blind plugs, splice cassettes and splice protection holders see table

No. of Fibres	Splice Cassettes DNW-SK/121	Splice Protection Holders DNW-SRH12
12	1	2
24	2	4
48	4	8

Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex

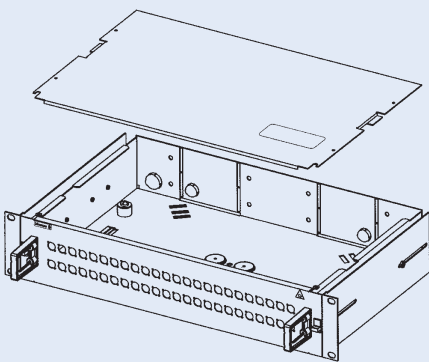
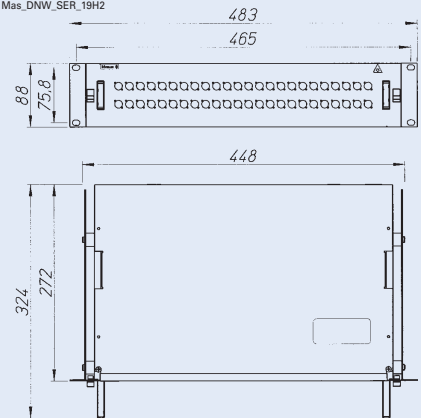
Termination System for 19" Technology

19" Patch Panel, 2U, Recessable Version, Empty, DNW-SER/19H2

N01406

Mas_DNW_SER_19H2

DNW_SER_19H2



- The 19" patch panel serves as a terminal for a fibre optic cable routed to a connector, and for storing splices
- Empty enclosure (without adapters and pigtails)
- Front handles for fixing the NWS-KFS/19 cable management system are included in the scope of delivery
- Two removable blanks at the rear for mounting cable entry angles or cover plates
- Installation point for strain relief (central strength member, Kevlar) of the cable
- For changing the adapters, the removable cover can be pushed back
- Holes for straight entries are closed with blind plugs
- Capacity
 - Straight entries with cable glands: 2 cables Ø 5-15 mm (M20) and 2 STVR9 patch panel connection tubes
 - Slanted entries with cable entry angles 1U: 4 cables Ø 5.5-18.5 mm (M12-M25) or 8 uncut cables of up to 16 mm
 - Slanted entries with cable entry angles 2U: 2 cables Ø 5.5-26.5 mm (M12-M32) or 6 cables Ø 5.5-7 mm or 8 cables Ø 5.5-7 mm
- Splice cassettes: 8x DNW-SK/121
- Adapters: 18-48 x FC/PC, ST, SC duplex, SC simplex, E2000
- Numbering stickers included
- Version: Recessable; plug-in module is continuously recessable from 0 to 60 mm
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Weight: Approx. 5.3 kg
- Scope of delivery: 1 Basic enclosure, 1 cover, 1 front plate, 4 plastic twisting clamps, fixing material, 2 front handles, 4 blind plugs, splice cassettes and splice protection holders see table

No. of Fibres	Splice Cassettes DNW-SK/121	Splice Protection Holders DNW-SRH12
24	2	4
36	3	6
48	4	8

Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex

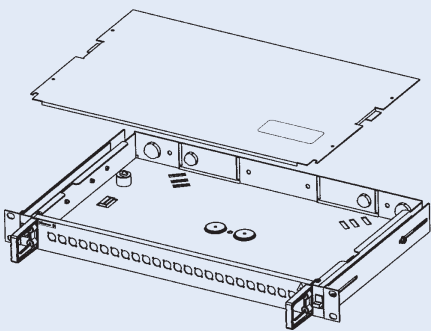
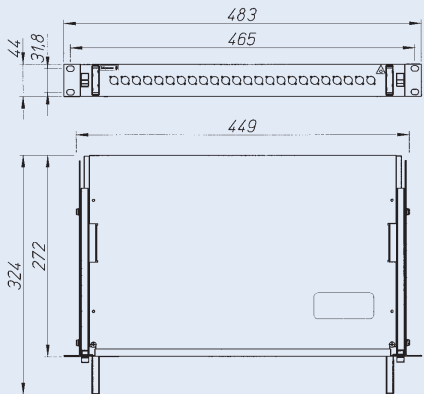
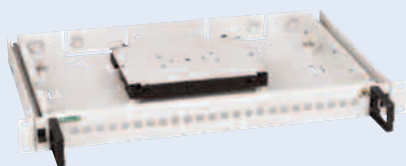
Termination System for 19" Technology

19" Patch Panel, 1U, Pull-out Version - With Telescope Slides, Empty, DNW-SEA/T/19H1

N01906

Mas_DNW_SEA_T_19H1

DNW_SEA_T_19H1



- The 19" patch panel serves as a terminal for a fibre optic cable routed to a connector, and for storing splices
- Empty enclosure (without adapters and pigtails)
- Front handles for fixing the NWS-KFS/19 cable management system are included in the scope of delivery
- Two removable blanks at the rear for mounting cable entry angles or cover plates
- Installation point for strain relief (central strength member, Kevlar) of the cable
- For changing the adapters, the removable cover can be pushed back
- Holes for straight entries are closed with blind plugs
- Capacity
 - Straight entries with cable glands: 2 cables Ø 5-15 mm (M20) and 2 STVR9 patch panel connection tubes
 - Slanted entries with cable entry angles: 2 cables Ø 5.5-18.5 mm (M12-M25) or 4 uncut cables of up to 16 mm
 - Splice cassettes: 4x DNW-SK/121
 - Adapters: 6-24 x FC/PC, ST, SC duplex, SC simplex, E2000
- Numbering stickers included
- Version: Pull-out version - with telescope slides; plug-in module can be pulled out and removed and it is continuously recessable from 0 to 60 mm; snap-in locks for locking the plug-in module
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Weight: Approx. 4.3 kg
- Scope of delivery: 1 Basic enclosure, 1 cover, 1 front plate, 4 plastic twisting clamps, fixing material, 2 front handles, 4 blind plugs, splice cassettes and splice protection holders see table

No. of Fibres	Splice Cassettes DNW-SK/121	Splice Protection Holders DNW-SRH12
12	1	2
24	2	4
48	4	8

Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex

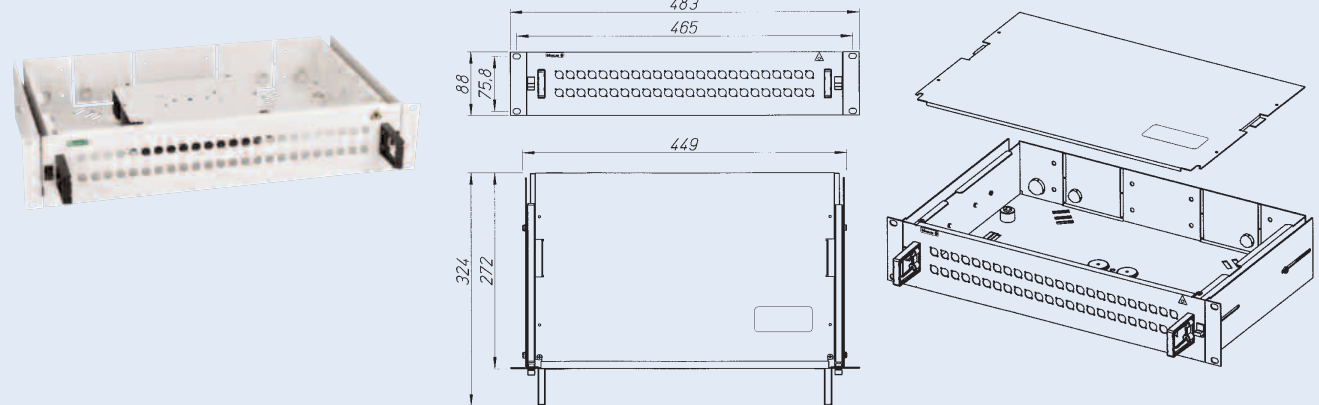
Termination System for 19" Technology

19" Patch Panel, 2U, Pull-out Version - With Telescope Slides, Empty, DNW-SEA/T/19H2

N01506

Mas_DNW_SEA_T_19H2

DNW_SEA_T_19H2



- The 19" patch panel serves as a terminal for a fibre optic cable routed to a connector, and for storing splices
- Empty enclosure (without adapters and pigtails)
- Front handles for fixing the NWS-KFS/19 cable management system are included in the scope of delivery
- Two removable blanks at the rear for mounting cable entry angles or cover plates
- Installation point for strain relief (central strength member, Kevlar) of the cable
- For changing the adapters, the removable cover can be pushed back
- Holes for straight entries are closed with blind plugs
- Capacity
 - Straight entries with cable glands: 2 cables Ø 5-15 mm (M20) and 2 STVR9 patch panel connenction tubes
 - Slanted entries with cable entry angles 1U: 4 cables Ø 5.5-18.5 mm (M12-M25) or 8 uncut cables of up to 16 mm
 - Slanted entries with cable entry angles 2U: 2 cables Ø 5.5-26.5 mm (M12-M32) or 6 cables Ø 5.5-7 mm or 8 cables Ø 5.5-7 mm
- Splice cassettes: 8x DNW-SK/121
- Adapters: 18-48 x FC/PC, ST, SC duplex, SC simplex, E2000
- Numbering stickers included
- Version: Pull-out version - with telescope slides; plug-in module can be pulled out and removed and it is continuously recessable from 0 to 60 mm; snap-in locks for locking the plug-in module
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Weight: Approx. 6.1 kg
- Scope of delivery: 1 Basic enclosure, 1 cover, 1 front plate, 4 plastic twisting clamps, fixing material, 2 front handles, 4 blind plugs, splice cassettes and splice protection holders see table

No. of Fibres	Splice Cassettes DNW-SK/121	Splice Protection Holders DNW-SRH12
24	2	4
36	3	6
48	4	8

Hole Pattern

Connector type	FC/PC	ST	SC simplex (=E2000, LC duplex)	SC duplex

Termination System for 19" Technology

Cable Trough for Patch Panel, 1U, DNW-KFW/SE_/19H1

N00608



- The cable trough serves for the protection and guidance of patch cords
- The patchcords can be fixed on both sides with cable tie wraps
- Assembly onto the front plate of a patch panel
- Material: Powder-coated aluminium, RAL 7035 pale grey
- Weight: Approx. 0.25 kg
- Scope of delivery: 1 Cable trough, fixing material

Termination System for 19" Technology

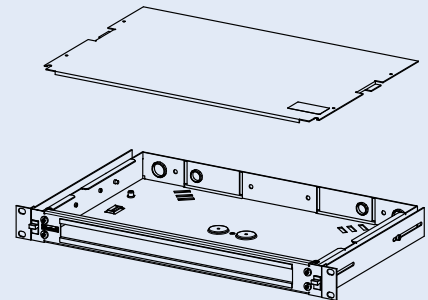
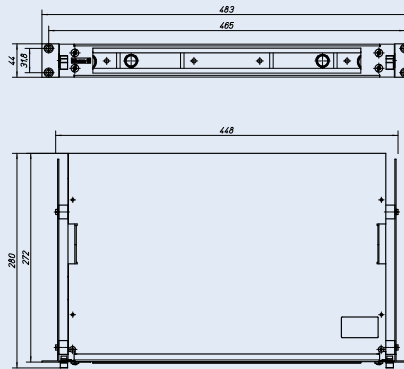
19" Cable Storage Frame, Recessable Version, DNW-KAR/19H.

1U

N01310

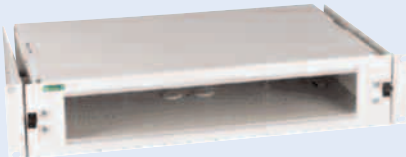


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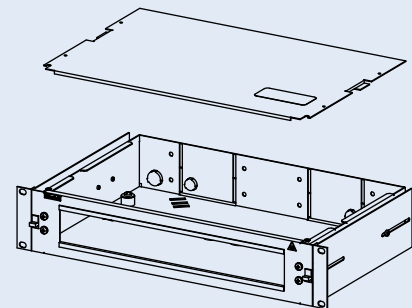
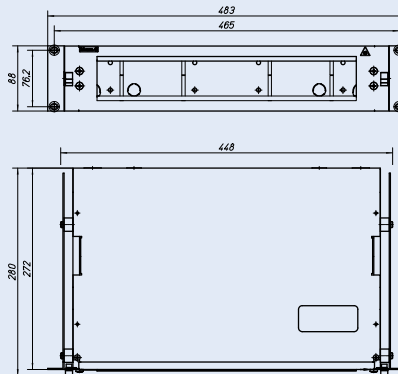


2U

N02706



102642



- The 19" cable storage frame serves for storing reserve and excess lengths of patch cords and pigtails
- Front handles for fixing the NWS-KFS/19 cable management system are available as accessory
- Large opening with integrated edge protection at the front
- Two removable blanks at the rear for mounting cable entry angles or cover plates
- Design similar to DNW-SER 19" patch panel
- For better access, the removable cover can be pushed back
- Version: Recessable; plug-in module is continuously recessable from 0 to 60 mm
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Weight: 1U approx. 3.3 kg; 2U approx. 5.1 kg
- Scope of delivery: 1 Basic enclosure, 1 cover, 1 front plate, 2 edge protection, fixing material

Cable Trough for Cable Storage, DNW-KW/KAR/19H2

- The cable trough serves for the protection and guidance of patch cords and pigtails
- To be mounted onto the DNW-KAR/19H2 cable storage frame instead of the front plate
- Material: Steel sheet, powder-coated, RAL 7035 pale grey
- Weight: Approx. 1 kg
- Scope of delivery: 1 Cable trough

Termination System for 19" Technology

Accessories for 19" Patch Panels and for the 19" Cable Storage Frame

Cable Entry Angles, DNW-KE/H

- Cable entry angles allow for a slanted insertion of cables into the patch panel
- Slanted cable insertion provides large bending radii and requires less space behind the plug-in module
- Split version for 2 uncut cables of up to 16 mm or 4 STVR9 patch panel connection tubes
- Angles for 1U and 2U
- Cable diameters

M12	5.5-7 mm
M20	7.5-11.5 mm
M25	12-18.5 mm
M32	19-26.5 mm
Split	up to 16 mm
- Material
 - Angle: Sheet steel, powder-coated, RAL 7035 pale grey
 - Cable glands: Nickel-plated brass
- Scope of delivery: 1 Angle, 1 cable gland, 1 counternut, fastening screws

Cable Entry Angles with Plastic Cable Glands, DNW-KE/H1/M../K

- Cable entry angles allow for a slanted insertion of cables into the patch panel
- Slanted cable insertion provides large bending radii and requires less space behind the plug-in module
- Cable diameters

M16	5-10 mm
M20	8-13 mm
M25	11-17 mm
- Material
 - Angle: Sheet steel, powder-coated, RAL 7035 pale grey
 - Cable glands: Polyamide (PA6) pale grey
- Scope of delivery: 1 Angle, 1 cable gland, 1 counternut, fastening screws

Cable Entry Angles for Patch Panel Connection Tube STVR9, DNW-KE/H.../STVR

- Cable entry angles allow for a slanted cable insertion into the patch panel
- Slanted cable insertion provides large bending radii and requires less space behind the plug-in module
- Especially for mounting the STVR9 patch panel connection tube
- Angles for 1U and 2U
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Scope of delivery: 1 Angle, fastening screws

Cover Plate for Patch Panel Connection Tube STVR9, DNW-AP/H.../STVR

- The cover plate allows for straight cable insertion into the patch panel
- Especially for mounting the STVR9 patch panel connection tube
- Cover plates for 1U and 2U
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Scope of delivery: 1 Cover plate, fastening screws

Blind Cable Entry Angle - for Closing Entry Openings, DNW-KE/H./B

Blind Cover Plate - for Closing Entry Openings, DNW-AP/H./B

- Cable entry angle and cover plate for closing spare openings of the patch panel
- Height: 1U or 2U
- Material: Sheet steel, powder-coated, RAL 7035 pale grey
- Scope of delivery: 1 Angle or 1 cover plate, fastening screws

Cable Glands and Blind Plugs, DNW-.V/M

- Cable glands allow for a straight cable insertion into the patch panel
- Cable diameters

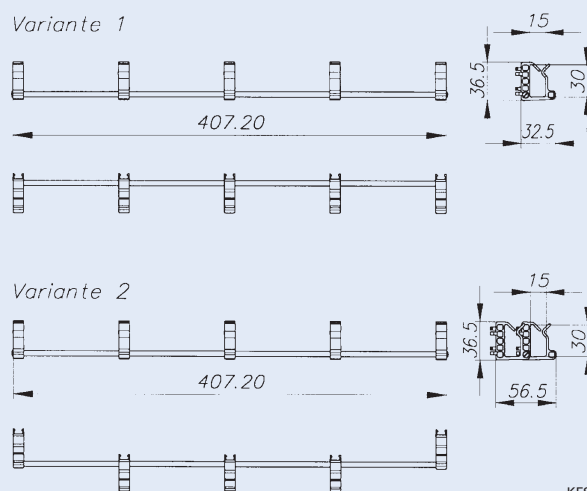
M16	5-10 mm
M20	8-13 mm
M25	11-15 mm
- Blind plugs for closing spare cable entry holes
- Material: Polyamide (PA6) pale grey
- Scope of delivery
 - Cable gland: 1 Cable gland, 1 counternut
 - Blind plugs: 2 Blind plugs

Dust Cover, DNW-SS

- Dust cover for adapter holes in 19" patch panels
- Colour: Black
- Scope of delivery: 1 Dust cover

Termination System for 19" Technology

Cable Management System NWS-KF, Front Handles DNW-FG/SE



KFS19_S3

- The cable management system serves for horizontal laying of cables (especially of fibre optic cables)
- DNW-FG/SE front handles are necessary for mounting it
- Material
 - Cable guide bar: Nickel-plated brass
 - Cable guides, front handles: Polyamid (PA6)
- Scope of delivery
 - Cable management system: 1 Cable guide bar, 5 cable guides, 2 cylinder head bolts
 - Cable guides: Set of 3
 - Front handles: 2 Front handles, fastening screws

Termination System for 19" Technology

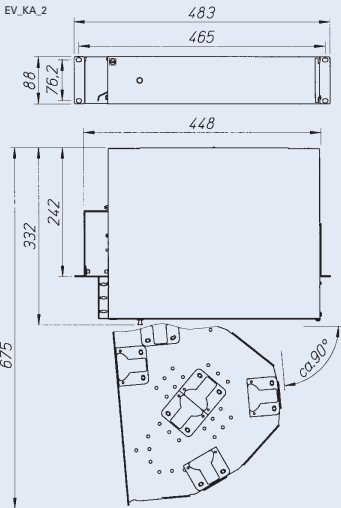
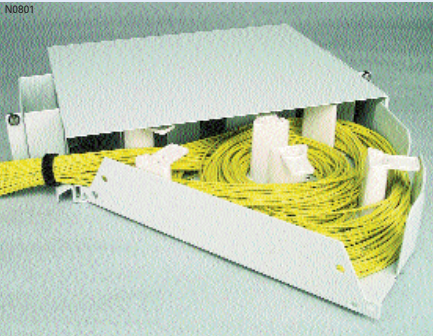
Accessories for 19" Subassembly Rack, 7U, 12 Modules

Cable Entry Angles KE H7/S13/..

- Cable entry angles permit slanted cable insertion into the subassembly rack
- The slanted cable entry provides large bending radii and requires less space
- Cable diameters
 - PG13 10-14 mm
 - PG16 12-16 mm
 - PG21 15-21 mm
- Material
 - Angles: Powder-coated sheet steel, RAL 7035
 - PG Cable gland: Nickel-plated brass
- Scope of delivery: 1 Angle, 1 PG cable gland, 1 counternut

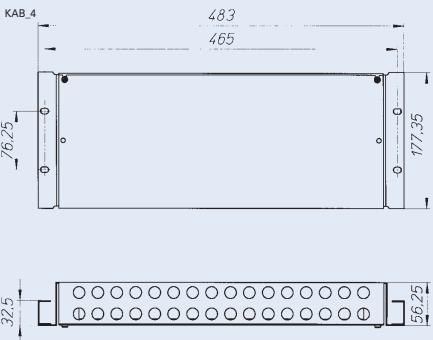
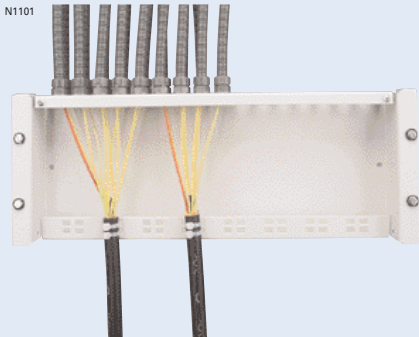
Termination System for 19" Technology

19" Cable Storage Frame, 2U, Swing-Type, EV-KA 19H2



- The 19" cable storage frame serves for storing reserve and excess lengths of patch cords and pigtails
- High mechanical protection through the closed design and internal storage of excess lengths
- Particularly suitable for 19" cabinets featuring a width of 600 mm
- Thanks to the swing-plate, no patch cord reserves from a routing duct or a storage compartment are necessary
- The swing-plate is left or right-hinged
- The forced lateral entry and outlet for the patch cords guarantee easy access to the storage frame
- Same layout as the 19" patch panel, 1U, swing-type
- Semi-circular patch cord guides can be installed for neat routing of the patch cords
- Capacity
 - Patch cord excess length 200 m with $\varnothing$ 2.7 mm
 - Patch cord guide, semi-circular Max. 7 units
- Material Powder-coated sheet steel, RAL 7035
- Scope of delivery
 - 1 Basic enclosure, 1 swing-plate, fixing material

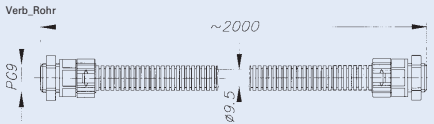
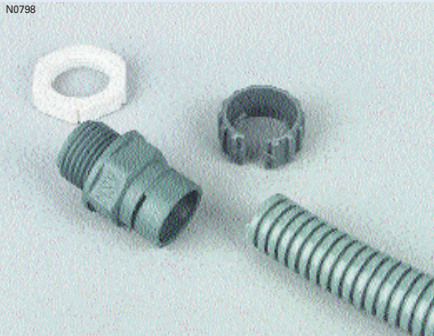
19" Cable Distribution Box, 4U, KAB 19H4/8K/32PG9



- The 19" cable distribution box serves for distributing multi-fibre loose tubes of a fibre optic cable featuring a large number of fibres to several patch panels
- Height 4U
- The cover for protecting the multi-fibre loose tubes is easy to remove
- Cable strain relief by means of tie wraps
- A strain relief set is available as accessory for additional strain relief of the central strength member or Kevlar reinforcement
- Multi-fibre loose tubes are distributed in the cable distribution box and routed to the patch panels through kink-proof patch panel connection tubes
- Capacity
 - Cable entry Max. 8 cables
 - Cable outlet Max. 32 STVR9 patch panel connection tubes
- Material Powder-coated sheet steel, RAL 7035
- Scope of delivery
 - 1 Basic enclosure, 1 fastening angle, 1 cover, fixing material

Termination System for 19" Technology

Patch Panel Connection Tube STVR9



- The patch panel connection tube serves as a protection for a multi-fibre loose tube running between a cable distribution box and a patch panel
- Kink-proof, highly flexible tube, inside diameter 9.5 mm
- PG9 threaded tube coupling with snap-in closure; the tube is automatically fixed after inserting it into the threaded tube coupling
- Threaded tube couplings mount to a cable entry angle, cable distribution box KAB or EV-SP 19" patch panel
- Special cable entry angles without PG threaded tube couplings for patch panels SER., SEA.. and subassembly rack BT 19H7/12RS
- The patch panel connection tube is also available in separate parts to suit individual lengths
- Capacity
 - Multi-fibre loose tubes 6 Units of $\varnothing$ 2.4 mm
- Degree of protection IP65
- Colour Black
- Material Polyamide
- Scope of delivery of the STVR9 set
 - 2 m tube, 2 PG threaded tube couplings, 2 PG counter-nuts

Termination System for 19" Technology

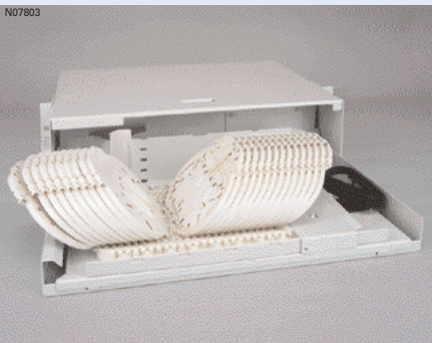
19" Patch Panel Tubeless System (TL)

19" Patch Panel, 3U, Pull-Out Version, TL, Individual Assembly, LWL-...

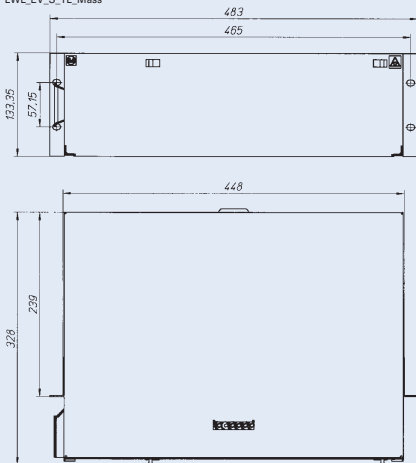
Description

- The 19" patch panel servers for storing splices; it is particularly suitable for splicing on to cable pigtails
- The tubeless version is particularly suitable for Single Circuit (SC) and Single Element (SE)
Single Element: For multi-fibre loose tube management (multi-fibre loose tube upon multi-fibre loose tube)
Single Circuit: Distribution of the fibres from one multi-fibre loose tube to several splice cassettes through fibre guiding channels
- Tubeless laying of fibres from the entry to the splice cassette
- Up to 48 individual splice cassettes thanks to the "cassette in a cassette" system
- Suitable for uncut cables

Basic Enclosure LWL-EV/S/TL/19H3/GG/M



LWL_EV_S_TL_Mass



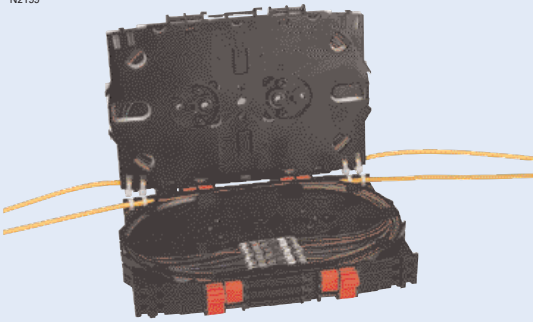
- High mechanical protection through the closed design
- Thanks to the pull-out element and special laying of the cables no patch cord reserves from a routing duct or a storage compartment are necessary
- Pull-out element can be taken out for splicing jobs
- Forced lateral entry and outlet (left) for patch cords guarantee easy access to the patch panel
- Especially designed for cables featuring a large number of fibres
- Installation point for cable strain relief (central strength member, Kevlar)
- Two openings at the rear for mounting cable entry angles or cover plates
- An entry module permits fibre routing to any cassette entry
- Separate storage area for multi-fibre loose tubes
- The 19" cable storage frame is available as an accessory for storing reserve and excess lengths
- Cable entries
 - With an angle of 1U
 - 4 Cables $\varnothing$ 6-21 mm or
 - 8 Cables up to $\varnothing$ 16 mm, uncut
 - With an angle of 2U
 - 2 Cables $\varnothing$ 8-28 mm or
 - 4 Cables $\varnothing$ 10-16 mm or
 - 6 Cables $\varnothing$ 8-12 mm
- Splice cassettes
 - 24 x SK123 or SK223
 - Available as sets of 6 splice cassettes each => max. 4 sets
 - Splice cassettes are engaged in a slanted position
 - Swing-type splice cassettes (90°) provide easy access to each splice
- Material
 - Powder-coated sheet steel, RAL 7035
- Scope of delivery
 - 1 Hood, 1 pull-out element, 1 tiltable cassette base plate, 1 entry module with cover, fixing material

Accessories

Splice Cassettes

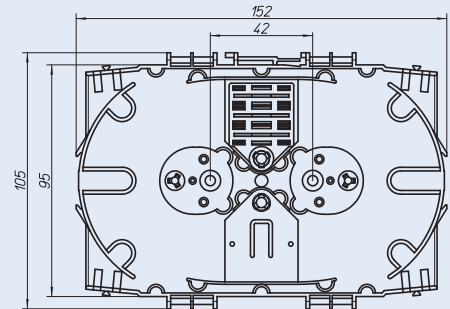
Splice Cassette ...-SK/120..

N2199

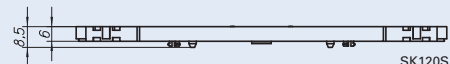
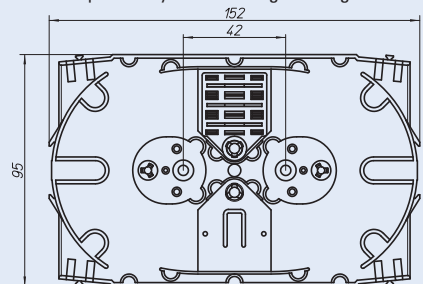


Stripping dimensions (cm):		
Windings	Min.	Max.
1.5	59	68
2	76	86
2.5	89	105
3	108	125
3.5	124	144

With the possibility for mounting the hinge



Without the possibility for mounting the hinge

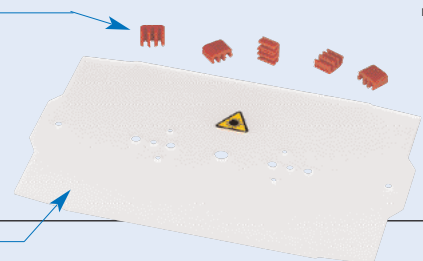


SK120S

- Splice storage for all kinds of optical fibres
- Splice cassettes can be piled one on top of the other
- With or without the possibility for mounting the hinge
- Installation of different splice protection holders is possible through the snap-on system
- Laying in an 8-shaped loop is possible
- Bending radius: >30 mm
- Capacity
 - Splices 16 splice protection tubes Ø 2.5 mm (heat-shrinkable)
 - 24 sandwich splice protectors (sandwich)
 - Splice protection holders 2x ...-SRH8 or 2x ...-SWH12
- Reserve fibre length approx. 40 m
- Material: Polystyrol
- Weight: 36 g
- Scope of delivery: 1 Splice cassette (excl. splice protection holder, excl. hinge)

Hinges for -SK/120/S, DNW-S/SK/120/S

- Hinges for fastening piled splice cassettes
- 4 Hinges per splice cassette
- When opening 2 hinges, the top cassette can be leafed through like a book
- Material: POM
- Weight: 0.2 g
- Scope of delivery: 1 Hinge



N00808

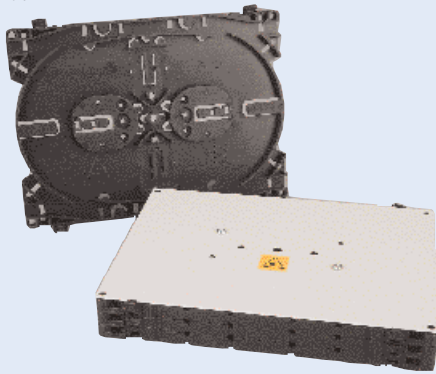
Cover for -SK/120(S), ...-SKA/120..

- For protecting the fibres against damage and soiling
- The cover is to be snapped onto the top cassette
- Material: Polypropylene transparent
- Weight: 13 g
- Scope of delivery: 1 Cover

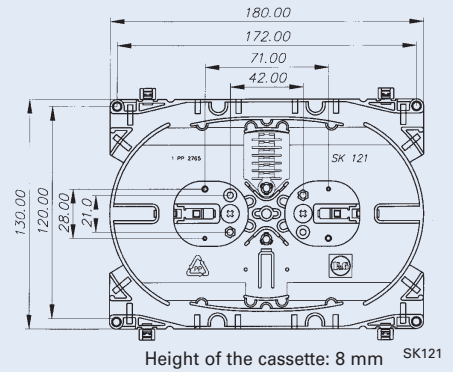
Accessories

Splice Cassette ...-SK/121..

N10797



Stripping dimensions (cm):		
Windings	Min.	Max.
1	37	49
1.5	54	73
2	69	95
2.5	86	118
3	104	144
3.5	116	164



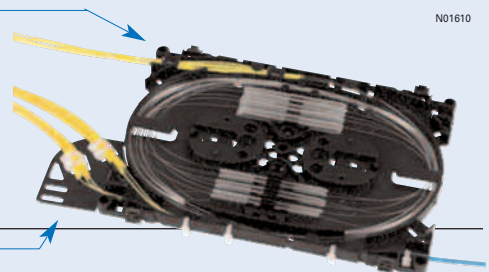
- Splice storage for all kinds of optical fibres
- Splice cassettes can be piled one on top of the other, so they can be "leafed through" like a book
- Mounting of different splice protection holders is possible through the snap-on system
- Laying in an 8-shaped loop is possible
- Bending radius: >35 mm
- Capacity
 - Splices 16 or 24 splice protection tubes Ø 2.5 mm (heat-shrinkable)
 - 24 sandwich splice protectors (sandwich)
- Splice protection holders 2x ...-SRH8, 2x ...SRH12 or 2x ...SWH12
- Reserve fibre length approx. 80 m
- Material: Polypropylene
- Weight: 62 g
- Scope of delivery: 1 Splice cassette (excl. splice protection holder)

Cover for -SK/121, ...-SKA/121..

- For protecting the fibres against damage and soiling
- The cover is to be mounted onto the top cassette
- Material: Powder-coated aluminium sheet, RAL 7035 light-grey
- Weight: 35 g
- Scope of delivery: 1 Cover incl. 2 pcs. slotted pan head screws

Pigtail Clips, PC121

- Stressfree strain relief for pressure-sensitive fibre pigtails
- Since they are fixed inside the cassette, no additional space is required
- To be engaged in the recesses for cable tie wraps
- Material: Polypropylene
- Weight: 1 g
- Scope of delivery: 1 Pigtail clip



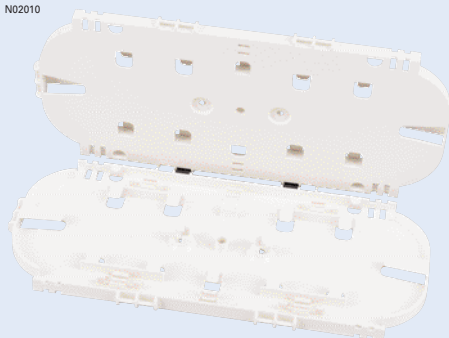
Strain Relief Plate for Pigtail Fastening - SK121, LWL-SK/121/AP..

- For strain relief of cable pigtails outside the splice cassette ...-SK/121..
- The strain relief plate is to be mounted by snapping it into splice cassette ...-SK/121
- Material: painted aluminium sheet, black
- Weight: Approx. 4 g
- Scope of delivery: 1 Strain relief plate

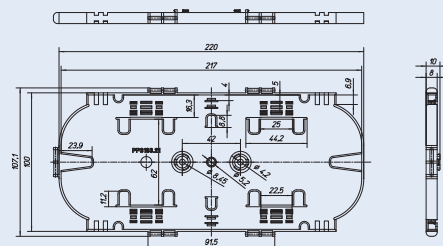
Accessories

Splice Cassette ...-SK/333..

N02010



Stripping dimensions (cm):		
Windings	Min.	Max.
1	48	60
1.5	68	84
2	88	108
2.5	108	132
3	128	156
3.5	148	180



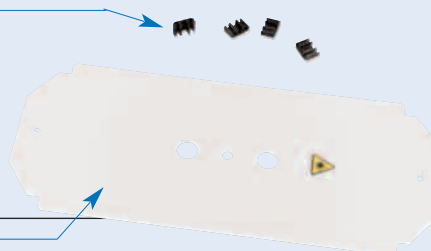
Mas_SK333

- Splice storage for all kinds of optical fibres
- Splice cassettes can be piled one on top of the other and can be leafed through like a book
- Installation of mechanical splice adapters is possible through the snap-on system
- Splice protection holders integrated
- Bending radius: >30 mm
- Capacity
 - Splices 24 (4x6) splice protection tubes Ø 2.5 mm (heat-shrinkable)
(recommended type: LWL-SR40/2,5/00)
- Reserve fibre length approx. 90 m
- Material: Polycarbonate UL94HB, Color RAL 9001
- Weight: 45 g
- Scope of delivery: 1 Splice cassette

Hinges for -SK/333, DNW-S/SK/333

N00808

- Hinges for fastening piled splice cassettes
- 4 Hinges per splice cassette
- When opening 2 hinges, the top cassette can be leafed through like a book
- Material: POM
- Weight: 0.1 g
- Scope of delivery: 1 Hinge

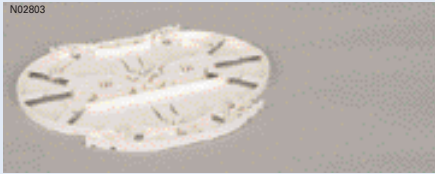


Cover for -SK/333, ...-SKA/333..

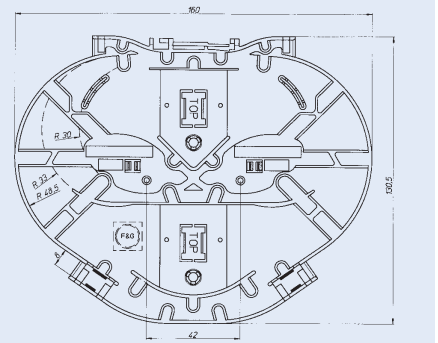
- For protecting the fibres against damage and soiling
- The cover is to be snapped onto the top cassette
- Material: Aluminium powder coated RAL 7035 light gray
- Weight: 50 g
- Scope of delivery: 1 Cover

Accessories

Splice Cassette SE, LWL-SK123..



Stripping dimensions (cm):		
Windings	Min.	Max.
1	39	51
1.5	55	71
2	78	102
2.5	94	112
3	110	142



Height of the cassette: 6 mm

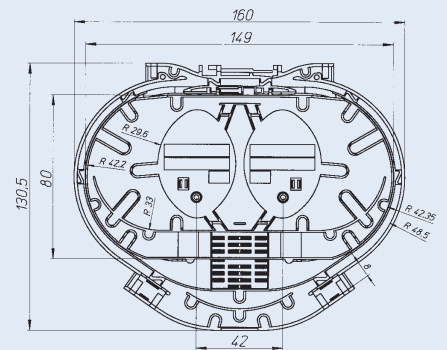
LWL_SK123

- Splice storage for all kinds of optical fibres
- Single Element (SE) splice cassette (multi-fibre loose tube upon multi-fibre loose tube)
- Height 6 mm, mechanically compatible with splice cassette LWL-SK223..
- Thanks to its round shape it is optimally suitable for SEC23
- Laying of an 8-shaped loop is possible
- Special mounting holder (snap-on) at the back of the splice cassette
- Splice cassettes are to be mounted in a slanted position, so they can be turned (90°) and provide easy access to each splice without affecting fibres in the adjacent cassettes
- 2 Entries each at the front and back
- Installation of different splice protection holders is possible through a snap-in system
- Bending radius: >30 mm
If only one splice protection holder is used: >35 mm
- Capacity
 - Splices 16 splice protection tubes Ø 2.5 mm (heat-shrinkable)
 - 24 sandwich splice protectors (sandwich)
- Splice protection holders 2x ...-SRH8 or 2x ...-SWH12
- Reserve fibre length approx. 80 mm
- Material: Polycarbonate UL94HB, colour RAL 9001
- Weight: 36 g
- Scope of delivery: 1 Splice cassette (excl. splice protection holder)

Splice Cassette SC, LWL-SK223..



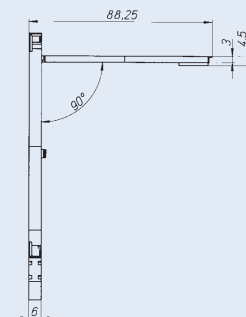
Stripping dimensions (cm):		
Windings	Min.	Max.
1 top	47	49
1 base plate	27	29
2 top	98	82
2 base plate	78	62
3 top	147	108
3 base plate	127	88



LWL_SK223

- Splice storage for all kinds of optical fibres
- Single Circuit (SC) splice cassette (distribution of the fibres from one multi-fibre loose tube to several splice cassettes)
- "Cassette in a cassette" system, i.e. there are in fact 2 splice cassettes each 3 mm high | one LWL-SK223.. accommodates 2 Single Circuit (SC) splice cassettes
- 6 mm high and mechanically compatible with splice cassette LWL-SK123..
- Thanks to its round shape it is optimally suitable for SEC23
- Laying of an 8-shaped loop is possible
- Special installation holder (snap-on) at the back of the splice cassette
- Splice cassettes are to be installed in a slanted position, so they can be turned (90°) and provide easy access to each splice without affecting fibres in the adjacent cassettes
- 2 Entries each at the front and back
- Splice protection holder integrated into the splice cassette
- Bending radius: >30 mm
- Capacity
 - Splices 2x4 splice protection tubes Ø 2.5 mm, length 40 mm (heat-shrinkable)
 - 2x6 sandwich splice protectors (sandwich)
- Reserve fibre length approx. 50 mm
- Material: Polycarbonate UL94HB, colour RAL 9001
- Weight: 67 g
- Scope of delivery: 1 Splice cassette

View when open

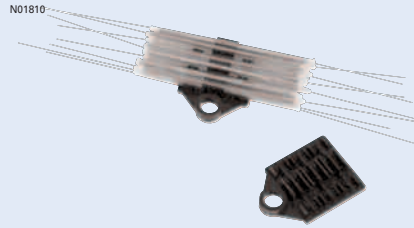


Accessories

Splice Cassette Cover, LWL-SKAx23..

- Protects fibres against damage and soiling
- Cover is to be snapped onto the top cassette
- Suitable for splice cassette LWL-SK123.. and LWL-SK223..
- Material: Powder-coated aluminium sheet, RAL 7035 light-grey
- Weight: Approx. 40 g
- Scope of delivery: 1 Cover

Splice Protection Holder, DNW-S, LWL-S..

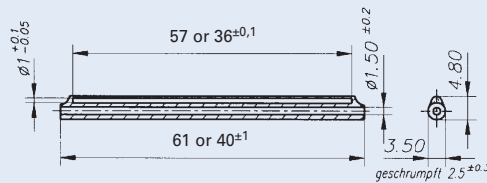


- The splice protection holder serves for fastening the splice protectors in the splice cassette
- Pressing the holder snaps it into the splice cassette
- Splice protection holder ...-SRH8.. for 8 splice protection tubes DNW-SR61/2,5/00 and LWL-SR40/2,5/00
- Splice protection holder ...-SRH12.. for 12 splice protection tubes DNW-SR61/2,5/00 and LWL-SR40/2,5/00 (assembly on the top of each other, 6+6) .. suitable only for SK121
- Splice protection holder ...-SWH12.. for 12 sandwich splice protectors DNW-SW32
- Material: Polypropylene
- Weight: 3 g
- Scope of delivery: 1 Splice protection holder

Splice Protection Tube Ø 2.5mm, DNW-SR61/2,5/00 or LWL-SR40/2,5/00

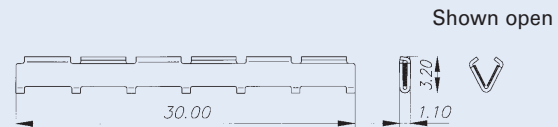
- A splice protection tube protects the splicing point (bare fibre) against mechanical damage and moisture
- Design: Transparent heat-shrinkable sleeve with metal pin inside and hot-melt adhesive
- Installation in splice protection holder DNW-SRH8, LWL-SRH8/M, DNW-SRH12, LWL-SRH12/M or LWL-SK223/SR..
- Technical specifications:

Shrinking temp. of sleeve	Approx. 115°C to 125°C
Melting point of adhesive	Approx. 75°C to 85°C
Hardness of the metal pin	> 400 HV
Dimensions after shrinking	Ø 2.5 x 61 mm, Ø 2.5 x 40 mm
- Scope of delivery: 1 Splice protection tube



Sandwich Splice Protector, DNW-SW32

- A sandwich splice protector protects the splicing point (bare fibre) from mechanical damage and moisture
- Design: V-shaped metal support with permanently elastic sealing
- Installation in splice protection holder DNW-SWH12, LWL-SWH12/M or LWL-SK223/SW..
- Technical specifications:
 Max. diameter of the fibre with a primary coating: 250 µm
 Storage temperature -30°C to +60°C
 Processing temperature -5°C to +45°C
- Scope of delivery: 1 Sandwich splice protector



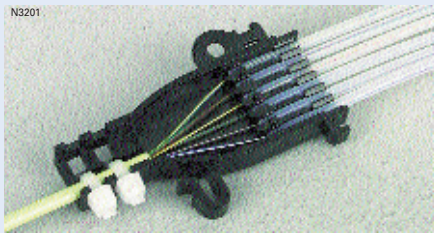
Accessories

General Accessories

Fibre Distribution Head with Cover, LWL-FATK/2/6

Fibre Distribution Head:

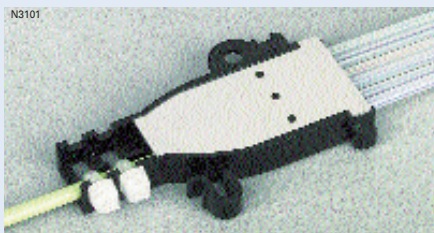
N3201



- The fibre distribution head is used for Single Circuit (SC) Management
- Distribution of the fibres from one multi-fibre loose tube to several splice cassettes
- Capacity
 - 2 Entries for multi-fibre loose tubes
 - 6 Outlets for fibre protection tubes (LWL-FSR/2,1/0,3..)
- Quick and easy installation of the fibre distribution head by means of a catch spring
- Good view of the distribution area
- Bending radius: >30mm
- Material: Polycarbonate
- Weight: 4 g

Cover:

N3101



- Protects fibres from damage and soiling
 - Cover is to be snapped onto the fibre distribution head
 - For fibre distribution head LWL-FATK/2/6..
 - Material: Aluminium sheet, no coating
 - Weight: Approx. 1.3 g
- Scope of delivery: 1 Fibre distribution head incl. cover

UFM - Expansion Set, LWL-ES/UFM/6455..

N3701



- The UFM - expansion set is used for Single Circuit (SC) Management (UFM = universal fibre management)
- For the installation of up to 16 LWL-FATK/2/6.. fibre distribution heads
- Distribution of the fibres from one multi-fibre loose tube to several splice cassettes
- Material
 - Fibre distribution head: Polycarbonate
 - Cover and holder: Aluminium sheet, no coating
- Weight: Approx. 90 g
- Scope of delivery: 2 Holders, 16 fibre distribution heads, 16 covers, fastening material

Patchcord Guide, Semi-circular, ...-PCF/..

N03203



- The patchcord guide serves for leading pigtails and patchcords in and out
- Installation on straight surfaces
- Length of the tongue: 44 or 70 mm
- Pivoting and removable tongue
- Material: Polycarbonate UL94HB, colour RAL 9001
- Weight: Approx. 20 g
- Scope of delivery: 1 Base body, 1 tongue (pre-mounted), 2 screws

Cable Entry with Heat-shrinkable Sleeve, LWL-KDF/S..

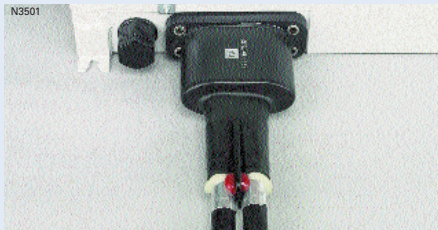
- For sealing cables with a PE-jacket by means of the heat-shrinking method
- Cable diameters
 - LWL-KDF/S/3/16.. 3 to 16 mm
 - LWL-KDF/S/6/22.. 6 to 22 mm
- Excellent sealing quality and mechanical strength
- Material
 - Body: Polyamide
 - Heat-shrinkable sleeve: Cross-linked polyolefine, inside lined with hot-melt adhesive
- Weight: Approx. 30 g
- Scope of delivery: 1 Cable entry with heat-shrinkable sleeve, 1 counter nut

Blanking Plug for Cable Entries with Heat-shrinkable Sleeve, LWL-BV/S..

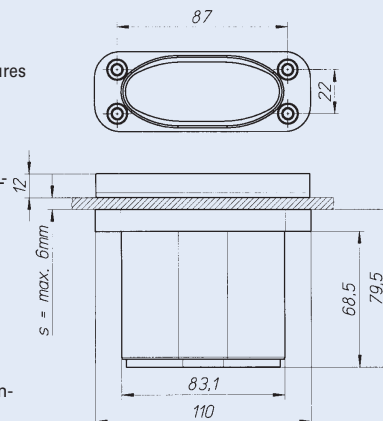
- For closing spare "Cable Entries with heat-shrinkable sleeve"
- Available for cable entries with heat-shrinkable sleeves of 16 mm and 22 mm
- Excellent sealing quality and mechanical strength
- Material: Polyamide
- Weight: Approx. 20 g
- Scope of delivery: 1 Blanking plug, 1 counter nut

Accessories

Oval Cable Entry Set, LWL-OVE/2/25..



- For entry of uncut cables
- Installation in OM1 Universal Plastic Enclosures, RGH Interconnect Enclosures and RGV Interconnect Enclosures
- The oval connection bush is blank-plugged upon delivery
- For 2 cables Ø 10 to 25 mm, uncut
- For sealing the cables an oval cable entry set LWL-SEC/KES/OVAL.. is necessary (not included in the scope of delivery)
- Material
Connection bush: UV-resistant polypropylene
Counterpart: Powder-coated aluminium sheet, RAL 7035
- Weight: Approx. 150 g
- Scope of delivery: 1 Oval connection bush, 1 counterpart, 1 O-Ring, 4 screws with O-ring



OVE_2

Multiple Cable Entries - flexible tube with cable gland



- The multiple cable entry allows a quick and effective entry of patch- or mini cable with a diameter of 2-6.5 mm
- Tube: kink-proof, highly flexible, halogen free, flame resistant, UV- and chemically resistant, inside diameter 23 mm
- The adapters are used either on one side or on both sides (depending on the application) for termination the protection tube. The tube is fixed automatically (an "OPENER" to release the assembly is available on request).
- Economic installation of five or more cables in one cable gland - with anti-torsion device (holes are closed on delivery)
- Degree of protection: IP68
- Material
Protection tube, multiple cable gland LWL-.../K: Polyamide (PA6)
Multiple cable gland LWL-....: Nickel-plated brass
- Scope of delivery
Protection tube: Standard length 0.5, 1 or 2 m (other length available upon request)
Tube/cable gland adapter: 1 Connection adapter (plastic/metal)
Tube/enclosure adapter: 1 Connection adapter incl. 1 counter nut
Multiple cable gland: 1 Cable gland incl. element, 1 O-ring seal

Cable Entry with PG Cable Gland, LWL-KDF/PG..

- For sealing cables by means of a PG cable gland
- Cable diameters
LWL-KDF/PG11.. 8 to 10 mm
LWL-KDF/PG13.. 10 to 12 mm
LWL-KDF/PG16.. 12 to 14 mm
LWL-KDF/PG21.. 15 to 17 mm
- Degree of protection: IP55
- Material: Polystyrole
- Weight: Approx. 15 g
- Scope of delivery: 1 PG Cable gland, 1 counter nut

Blanking Plug for PG Cable Gland, LWL-BV/PG..

- For closing spare "PG Cable Entries"
- Available for PG11, PG13, PG 16 and PG 21 cable entries
- Degree of protection: IP54
- Material: Polystyrole
- Weight: Approx. 5 g
- Scope of delivery: 1 PG Blanking plug, 1 counter nut

Cable Clips, NWS-K/AC



- Cable clips serve for strain relief of cables and tubes
- To be fixed on the cable strain relief rail (C-profile rail)
- Material: Hot-dip galvanized steel
- Scope of delivery: 1 Cable clip

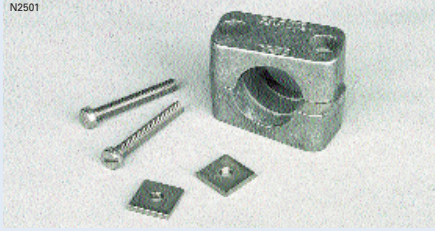
Blind Plugs, BS..

- For closing spare adapter holes
- For FC/PC, ST, SC simplex and SC duplex adapters
- Scope of delivery: 1 Blind plug

Accessories

Aluminium Clamps, LWL-AS/M..

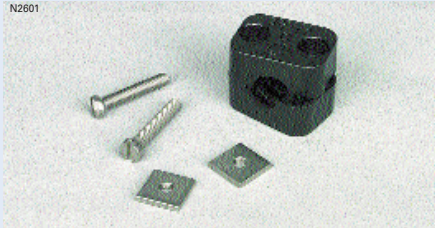
N2501



- Aluminium clamps are compatible with all types of strain relief rails
- Outstanding strength and resistance
- Special types upon request
- Material: Clamp body of aluminium
- Scope of delivery: 2 Clamp bodies, 2 bolts, 2 slide nuts

Plastic Clamps, LWL-KS/M..

N2601

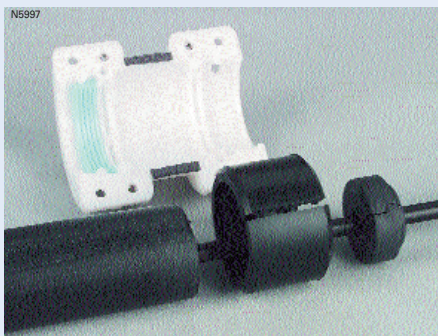


- Plastic clamps are compatible with all types of strain relief rails
- Outstanding strength and resistance
- Special types upon request
- Material: Clamp body of polyamide
- Scope of delivery: 2 Clamp bodies, 2 bolts, 2 slide nuts

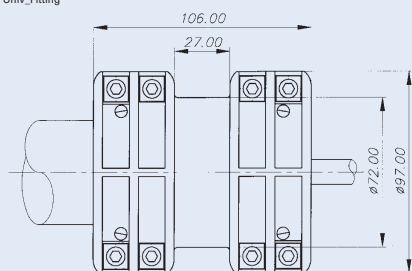
Accessories

Universal Fitting LWL-UF1/R.

N5997



Univ_Fitting



- The universal fitting serves for strain relief and sealing of optical cable tubes (conduits) and blown-in cables
- End or connection fitting for direct underground laying
- The split design makes it suitable for installation around cables already blown in
- For optical cable tubes (conduits) of $\varnothing$ 40 and 50 mm
- Sealings can be used again
- Universal end fitting LWL-UF1/R./KU/00
 - For sealing optical cable tubes (conduits) connected to cables
 - Cable diameter 10-20 mm (onion ring sealing)
 - The cable can be removed without impairing the tightness, e.g. in case of a malfunction
- Universal end fitting LWL-UF1/R./B/00
 - For sealing spare optical cable tubes
- Connection fitting LWL-UF1/R./R./00
 - For sealing a tube-to-tube connection
 - A set of bolts is available as accessory in case of cables blown in through the fitting
- Universal fitting LWL-UF1/R./00/00
 - The outlet end is compatible with all kinds of sealings (see accessories)
- Mechanical strength

Impact	1 kg Steel ball, 2 m fall (1 x at the centre, 1 x turned by 90°)
Impact	6 kg Guillotine, 35 cm fall (1 x at the centre, 1 x turned by 90°)
- Pressure resistance

Permanent pressure	0.4 bar above atmospheric
Tight from	-15°C to +50°C
- Tightness of the cable

Strain	$\leq$ 250N
Bending (2 twice)	500N, max. deflection 45°, point of application 250 mm from the fitting
- Tightness of the tube

Strain	$\square$ 1000N
Bending	Tube $\varnothing$ 50 mm, internal pressure 0.4 bar above atmospheric, bending radius 750 mm according to DIN 8076-3
- Degree of protection

	IP68
--	------
- Temperature changes

	-15°C to +50°C, 10 times
--	--------------------------
- External pressure resistance

	4 m water column
--	------------------
- Material

Fitting	POM plastic
Sealings	Special rubber compound
- Weight

	Approx. 0.5 kg
--	----------------
- Scope of delivery

Universal end fitting:	2 Half shells, 1 sealing ring, 1 onion ring sealing or blank closure, 2 strain relief rings, 1 cleaning cloth, 1 copy of Instructions for Installation, fastening bolts
Universal fitting:	2 Half shells, 1 sealing ring, 2 strain relief rings, 1 cleaning cloth, 1 copy of Instructions for installation, fastening bolts
Connection fitting:	2 Half shells, 1 sealing ring, 4 strain relief rings, 1 cleaning cloth, 1 copy of Instructions for Installation, fastening bolts

Accessories for LWL-UF1/R. Universal Fitting

Cable Sealing

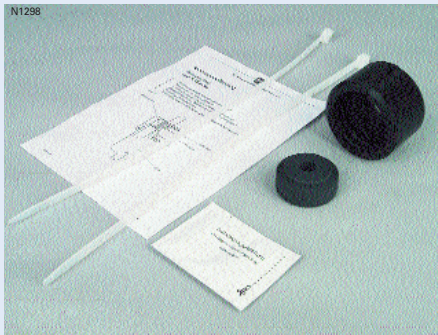
- For sealing an optical cable tube (conduit) connected to two cables
- Mounts to the outlet end of the LWL-UF1/R./00/00 universal fitting
- The split design makes it suitable for installation around cables already blown in
- Cable diameter

Cable sealing 12/12	2 cables $\varnothing$ 12 mm
Cable sealing 12/14	1 cable $\varnothing$ 12 mm and 1 cable $\varnothing$ 14 mm
- Material: Special rubber compound
- Scope of delivery: 1 Cable sealing

Accessories

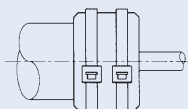
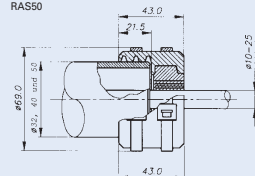
Tube End Closure LWL-RAS/R./KU/00

N1298



- The tube end closure serves for sealing optical cable tubes (conduits) and blown-in cables
- The tube end closure is suitable for installation in the base of a VK1-SO distribution cabinet, for duct mounting or for indoor applications
- The split design makes it suitable for installation around cables already blown in
- For optical cable tubes (conduits) of $\varnothing$ 40 and 50 mm
- Sealings can be used again
- Degree of protection IP65
- Material Special rubber compound
- Weight Approx. 0.14 kg
- Scope of delivery
1 Sealing ring, 1 onion ring sealing, 2 tie wraps, 1 cleaning cloth, 1 copy of Instructions for Installation

RAS50



Fibre Optic Connectors

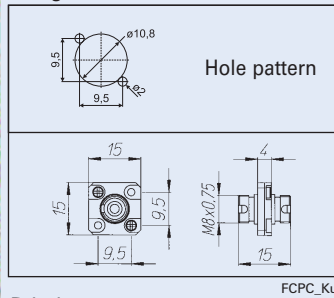
Adapters

FC/PC, FC/APC

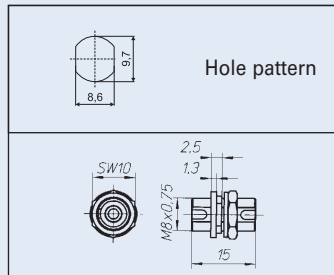
N1200



Flange



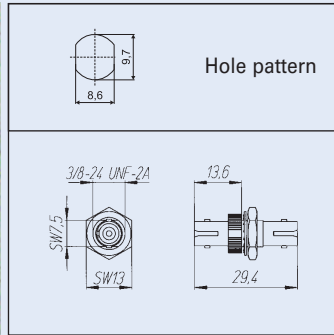
D-hole



	Single-mode		Multi-mode
	FC/APC	FC/PC	FC/PC
IL [dB]	<0.15	<0.15	<0.20
Service life: change IL<0.2dB	>500 cycles		
Temperature range [°C]	-40°C to +75°C		
Specifications	IEC 874, Bellcore GR-326 JIS C5970, TelCom ML3360		
Metal body	x	x	x
2-hole fastening - diagonal	x	x	x
D-hole		x	x
Slotted bronze sleeve			x
Slotted ceramic sleeve	x	x	

ST/PC

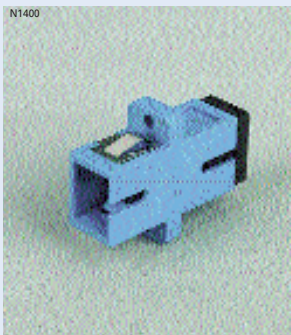
N1300



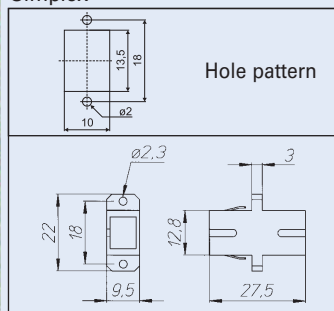
	Single-mode	Multi-mode
IL [dB]	<0.15	<0.20
Service life: change IL<0.2dB	>500 cycles	
Temperature range [°C]	-40°C to +75°C	
Specifications	IEC 874 TelCom ML 3362-1 FOCIS 2	
Metal body	x	x
D-hole	x	x
Slotted bronze sleeve		x
Slotted ceramic sleeve	x	

SC/PC, SC/APC

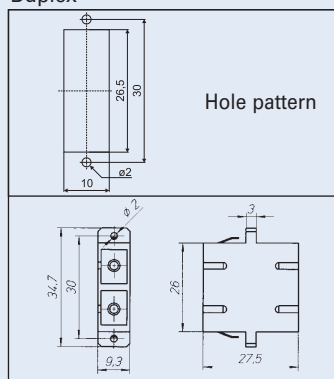
N1400



Simplex



Duplex

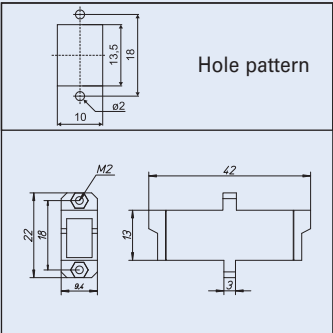
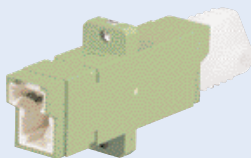


	Single-mode		Multi-mode
	SC/APC	SC/PC	SC/PC
Colour	green	blue	beige
IL [dB]	<0.15	<0.15	<0.20
Service life: change IL<0.2dB	>500 cycles		
Temperature range [°C]	-40°C to +75°C		
Specifications	IEC 874 Bellcore GR-326 JIS C5973		
Plastic body	x	x	x
2-hole fastening and quick installation clamp	x	x	x
Slotted bronze sleeve			x
Slotted ceramic sleeve	x	x	
Simplex version	x	x	x
Duplex version		x	x

Fibre Optic Connectors

E2000/PC, E2000/APC

N02110

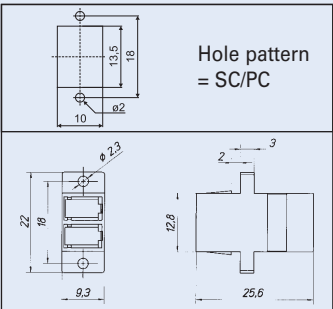


E2000_Ku

	Single-mode		Multi-mode
	E2000/APC	E2000/PC	E2000/PC
Colour	green	blue	blue
IL [dB]	<0.20	<0.20	<0.20
Service life: change IL<0,2dB	>500 cycles		
Temperature range [°C]	-40°C to +75°C		
Specifications	EN 186, CECC 86275-801(802)		
Plastic body	x	x	x
2-hole fastening	x	x	x
Snap-in fastening (spring)	x	x	x
Slotted ceramic sleeve	x	x	x

LC/PC

N01607



LC_PC_Ku

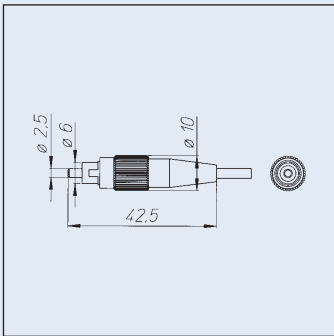
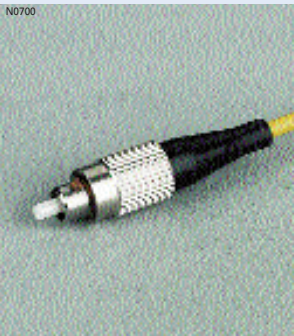
	Single-mode	Multi-mode
	blue	beige
Colour	blue	beige
IL [dB]	average <0.2 max. <0.3	
Service life: change IL<0.15dB	>500 cycles	
Temperature range [°C]	-40°C to +80°C	
Specifications	IEC 61754-20	
Plastic body	x	x
2-hole fastening and quick installation clamp	x	x
Slotted bronze sleeve		x
Slotted ceramic sleeve	x	
Duplex version	x	x

Fibre Optic Connectors

Connector Types

FC/PC, FC/APC (8°)

N0700

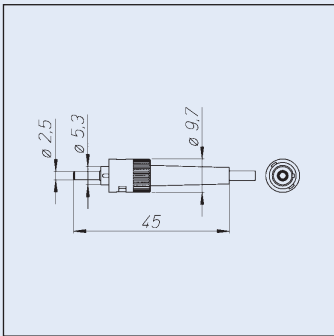


FCPC_St

		Single-mode		Multi-mode
		FC/APC	FC/PC	FC/PC
IL	max. [dB]	0.30	0.20	0.30
IL	mean [dB]	<0.20	<0.10	<0.20
RL	min. [dB]	60	48	–
RL	mean [dB]	>65	>51	–
Service life: change IL<0.2dB		>500 cycles		
Temperature range [°C]		-40°C to +75°C		
Specifications		Bellcore GR-326		
		–	IEC874, JIS C5970, TelCom ML3360	
Metal body		x	x	x
Threaded lock		x	x	x
Ceramic ferrule Ø 2.5mm		x	x	x

ST/PC

N0800

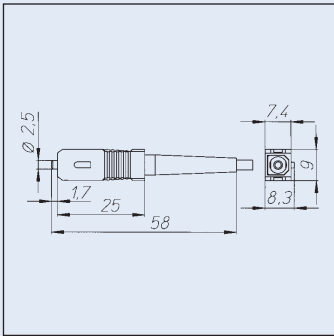
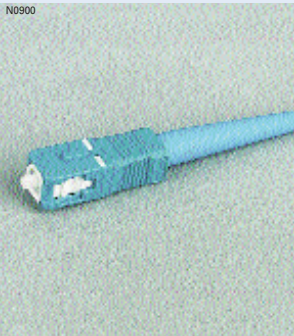


ST_St

		Single-mode	Multi-mode
IL	max. [dB]	0.30	0.30
IL	mean [dB]	<0.20	<0.20
RL	min. [dB]	30	–
RL	mean [dB]	>40	–
Service life: change IL<0.2dB		>500 cycles	
Temperature range [°C]		-40°C to +75°C	
Specifications		IEC 874, Bellcore GR-326 TelCom ML3362, FOCIS 2	
Metal body		x	x
Bayonet lock		x	x
Ceramic ferrule Ø 2.5mm		x	x

SC/PC, SC/APC (8°)

N0900



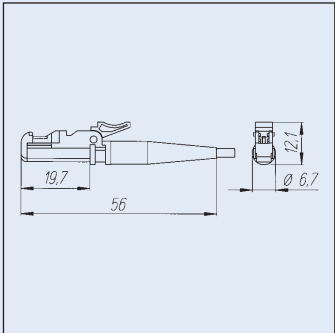
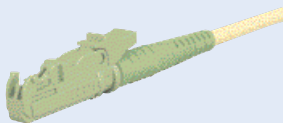
SC_St

		Single-mode		Multi-mode
		SC/APC	SC/PC	SC/PC
Colour		green	blue	blue
IL	max. [dB]	0.30	0.20	0.30
IL	mean [dB]	<0.20	<0.10	<0.20
RL	min. [dB]	60	45	–
RL	mean [dB]	>65	>48	–
Service life: change IL<0.2dB		>500 cycles		
Temperature range [°C]		-40°C to +75°C		
Specifications		IEC 874, Bellcore GR-326		
		–	JIS C5973 TelCom ML3361	
Plastic body		x	x	x
Push-pull lock		x	x	x
Ceramic ferrule Ø 2.5mm		x	x	x
Duplex version		available on request		

Fibre Optic Connectors

E2000/PC, E2000/APC (8°)

N02310



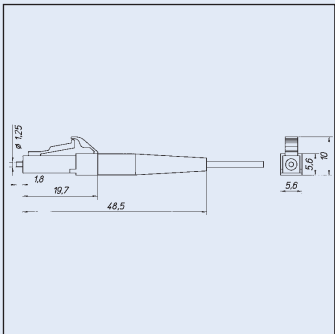
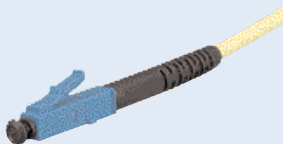
E2000_St

		Single-mode		Multi-mode
		E2000/APC	E2000/PC	E2000/PC
Colour		green	blue	blue
IL	max. [dB]	0.30	0.20	0.30
IL	mean [dB]	<0.20	<0.10	<0.20
RL	min. [dB]	60	45	–
RL	mean [dB]	>65	>48	–
Service life: change IL<0,2dB		>500 cycles		
Temperature range [°C]		-40°C to +75°C		
Specifications		EN 186, CECC 86275-801(802)		
Plastic body		x	x	x
Push-pull lock with snap-in function		x	x	x
Ceramic ferrule Ø 2.5mm		x	x	x

The ferrule is protected by a cap which opens automatically when plugging the connector.
At the same time, this element offers protection against escaping laser radiation.

LC/PC

N02210



LC_PC_St

		Single-mode	Multi-mode
Colour		blue	beige
IL	max. [dB]	0.30	0.30
IL	mean [dB]	<0.20	<0.20
RL	min. [dB]	45	–
RL	mean [dB]	>48	–
Service life: change IL<0,2dB		>500 cycles	
Temperature range [°C]		-20°C to +70°C	
Specifications		IEC 61754-20	
Plastic body		x	x
Push-pull lock with snap-in function		x	x
Ceramic ferrule Ø1.25mm		x	x

All attenuations measured against master.

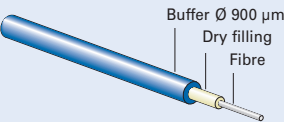
Fibre Optic Connectors

Loose Buffered Fibres, Cables

	SM		MM 50		MM 62,5	
Colour	yellow, orange		green, orange		blue, orange	
Specifications	ITU G.652	IEC 793	ITU G.651	IEC793	IEC 793	
	DIN VDE 0888		DIN VDE 0888			
Wave length [nm]	1310	1550	850	1300	850	1300
Attenuation [dB/km]	$\leq 0.38/\leq 0.35^{1)}$	$\leq 0.28/\leq 0.21^{1)}$	$\leq 3.0/\leq 2.5^{1)}$	$\leq 1.0/\leq 0.7^{1)}$	$\leq 3.2/\leq 3.0^{1)}$	$\leq 0.9/\leq 0.8^{1)}$
Band width [MHz.km]	–	–	≥ 500	≥ 500	$\geq 250/\geq 200^{1)}$	$\geq 600/\geq 500^{1)}$
Dispersion [ps/nm.km]	≤ 3.5	≤ 18.0	–	–	–	–

¹⁾ Loose buffered fibres for Pigtails

Loose Buffered Fibres

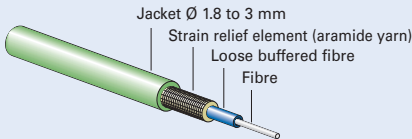


Loose buffered fibres

Design: Optical fibres with secondary coating Ø 900 µm and dry filling, excellent stripping properties, high kinking resistance, allowing small bending radii

Standards (similar to): DIN VDE 0888, IEC 794
Min. Bending radius: 30 mm
Max. tensile load: 10 N

Simplex Cable

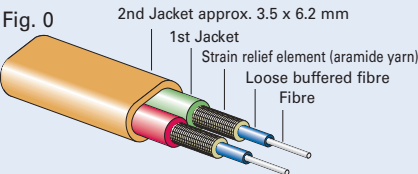
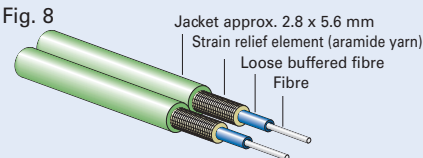


Simplex cable, non-metallic design

Design: Loose buffered fibre, non-metallic strain relief element (Kevlar re-inforcement)
Dimensions: Outer jacket Ø: 1.8 - 3 mm (depending on the type of connector used)

Standards (similar to): DIN VDE 0888, IEC 794
Min. Bending radius: 30 mm
Max. tensile load: 100 N
Material: FRNC (halogen-free, non-flammable)

Duplex Cable

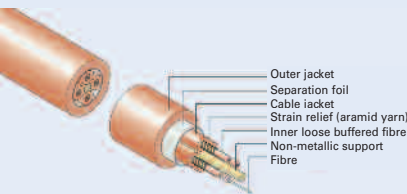


Duplex cable, non-metallic design

Design: Two simplex cables, either as shown in Fig. 8 (approx. 2.8 x 5.6 mm) or in Fig. 0 (approx. 3.5 x 6.2 mm)

Standards (similar to): DIN VDE 0888, IEC 794
Min. bending radius: 30 mm (flat side)
Max. tensile load: 2 x 100 N
Material: FRNC (halogen-free, non-flammable)

Breakout Cable



Breakout cable, non-metallic design

Design: 4 to 12 Simplex cables (loose buffered fibre with strain relief and outer jacket), stranded and combined in a jacket (suitable for connectors and splices)

Standards: IEC 60794, EN 187000
Min. bending radius:
static 15x cable diameter
dynamic 20x cable diameter
Max. tensile load: 400 N
Cable diameter:
Stranding 4 fibres 9.5 mm
6 fibres 11.1 mm
8 fibres 13.5 mm
12 fibres 17.1 mm
Material: FRNC according to IEC 60332-2
Temperatur range:
storage and transport -25°C to +70°C
laying -5°C to +60°C
operation -5°C to +50°C

Standard cables available

Stranding	4	6	8	12
Type of fibre				
S10/125	✓	✓	✓	✓
G50/125	✓		✓	✓
G62.5/125	✓		✓	✓

Fibre Optic Connectors

Standard Types of Pigtails and Patch Cords

Type Code

PC 2m - A/B - 01 - 1S10/125/30

PC:	PT Pigtail PC Patch cord, Breakout cable
2m:	Standard lengths Pigtail: e.g. 2m, 3m, ... Patch cord: e.g. 1m, 2m, 3m, 5m, 6m, 10m, ...
A/B:	Connector Side A / Side B FC(FC/PC) , FCA(FC/APC) , ST(ST/PC), SC(SC/PC), SCA(SC/APC), E2 (E2000/PC), E2A(E2000/APC), DIN (DIN/PC), LC (LC/PC)
01:	Attenuation*) 01: IL ≤ 0.2 dB/Ø 0.1 dB RL ≥ 48 dB/Ø 51 dB 03: IL ≤ 0.3 dB/Ø 0.2 dB RL ≥ 60 dB/Ø 65 dB 05: IL ≤ 0.3 dB/Ø 0.2 dB RL ≥ 30 dB/Ø 40 dB 07: IL ≤ 0.3 dB/Ø 0.2 dB 17: IL ≤ 0.4 dB/Ø 0.2 dB RL ≥ 40 dB/Ø 44 dB 18: IL ≤ 0.4 dB/Ø 0.2 dB 20: IL ≤ 0.2 dB/Ø 0.1 dB RL ≥ 45 dB/Ø 48 dB 21: IL ≤ 0.3 dB/Ø 0.2 dB RL ≥ 45 dB/Ø 48 dB

Type of Cable:	1S10/125/09	Loose buffered fibre	Single-mode 10/125
	1G50/125/09		Multi-mode 50/125
	1G62/125/09		Multi-mode 62.5/125
	1S10/125/30	Simplex	Single-mode 10/125
	1G50/125/30		Multi-mode 50/125
	1G62/125/30		Multi-mode 62.5/125
	2S10/125/30	Duplex	Single-mode 10/125
	2G50/125/30		Multi-mode 50/125
	2G62/125/30		Multi-mode 62.5/125
	4S10/125/30	Breakout cable 4 fibres	Single-mode 10/125
	6S10/125/30	6 fibres	Single-mode 10/125
	8S10/125/30	8 fibres	Single-mode 10/125
	12S10/125/30	12 fibres	Single-mode 10/125
	4G50/125/30	Breakout cable 4 fibres	Multi-mode 50/125
	8G50/125/30	8 fibres	Multi-mode 50/125
	12G50/125/30	12 fibres	Multi-mode 50/125
	4G62/125/30	Breakout cable 4 fibres	Multi-mode 62.5/125
	8G62/125/30	8 fibres	Multi-mode 62.5/125
	12G62/125/30	12 fibres	Multi-mode 62.5/125

Example

Patch cord / Length: 5m / Connector: Side A - FC Side B - SCA / Duplex single-mode
PC 5m - FC/SCA - 03 - 2S10/125/30

Other types and attenuation limits are available on request.

Scope of delivery pigtails: Units per package 2 Pigtails uncut.

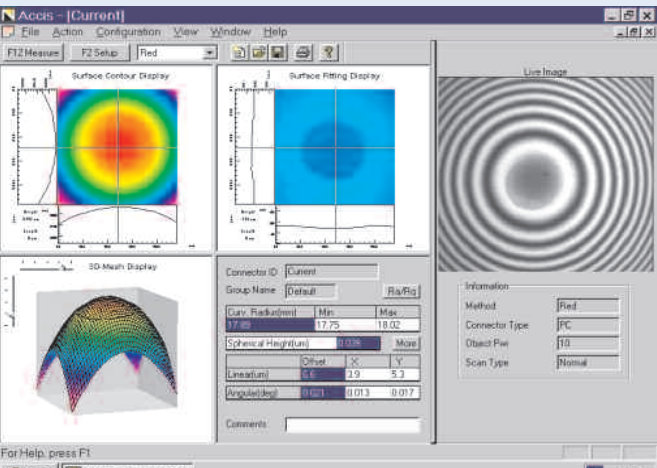
*) measured against master

Fibre Optic Connectors

Quality Testing of Ready-to-Use Patch Cords and Pigtails

Our manufacture, just like the entire company, is ISO 9001 certified. Ready-to-use pigtails and patch cords are subject to quality testing as defined in our internal test plan.

Testing by Interferometer



Geometrical parameters:

Radius of curvature (RoC)	10 - 25 mm (in case of PC grinding type) 5 - 15 mm (in case of APC grinding type)
Offset	< 50 µm
Protrusion / Undercut	+10 nm to -50 nm

Optical Final Testing

Tests according to EN 188000

Insertion loss:	see connector description	} measured simultaneously
Return loss:	see connector description	
Scope of testing:	100%	

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