

In This Section...

Carlon®

Plenum-Gard®	N-2-N-3
Riser-Gard®	N-4-N-5
Hal-Free Riser-Gard®	N-6
Carlon® Duct	N-7-N-8
Micro-Gard® Plenum and Riser	N-9-N-10
Flexible Raceway Accessories	N-11-N-19
Innerduct Guide	N-20

Carlon® Flexible Raceway Systems

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Carlton®

Plenum-Gard®



Applications: Plenum, Riser and General Purpose

Plenum-Gard®

Plenum-Gard® is a UL Listed non-metallic corrugated flexible conduit for use in plenum, riser and general purpose applications. Plenum-Gard® is manufactured from PVDF resin, which is extremely durable and resistant to abrasion and mechanical damage before/after cable installation.

Plenum-Gard® is listed to UL 2024 in accordance with the National Electrical Code® for plenum, riser, general purpose and other cabling optical fiber/telecommunication applications as defined in Articles 725, 770, 800 and 820.

Important: Installed cables must be plenum rated and the UL Listing must be printed on the product. Abandoned cables MUST be removed (reference NEC®).

Technical Info

UL STANDARD 2024	VALUE
Maximum Flame Propagation	5 ft.
Max. Peak Optical Smoke Density	0.5
Max. Average Optical Smoke Density	0.15

- Storage: -4° to 158° F
- Handling: -4° to 104° F
- No UV protection (not suitable for outdoor use)
- Do not store outside

Standard Stock — Reels

CAT. NO.	SIZE (IN.)	COLOR	PULL TAPE	REEL SIZE (F X W) (IN.)	REEL TYPE	REEL LENGTH (FT.)	REEL WT. (LBS.)	PRODUCT WT. PER 100 FT. (LBS.)
CD4X1C-1500	½	Orange	200 lb.	34 x 23	Wood	1,500	30	7
CE4X1-1000		Orange	Empty	34 x 23	Wood	1,000	30	8
CE4X1-1000S	¾	Orange	Empty/Split	34 x 23	Wood	1,000	30	8
CE4X1C-1000		Orange	900 lb.	34 x 23	Wood	1,000	30	8
CF4X1C-500		Orange	900 lb.	34 x 23	Wood	500	30	10
CF4X1C-1000		Orange	900 lb.	48 x 28	Wood	1,000	79	10
CF4X1C-1500	1	Orange	900 lb.	48 x 28	Wood	1,500	79	10
CF4X1C-5200		Orange	900 lb.	66 x 41	Wood	5,200	250	10
CF4X1C-6500		Orange	900 lb.	72 x 41	Wood	6,500	310	10
CF4X1C-8000		Orange	900 lb.	82 x 41	Wood	8,000	365	10
CG4X1C-500		Orange	900 lb.	48 x 28	Wood	500	79	14
CG4X1-500S		Orange	Empty/Split	48 x 28	Wood	500	79	10
CG4X1C-900		Orange	900 lb.	48 x 45	Wood	900	96	14
CG4X1C-1600	1¼	Orange	900 lb.	48 x 45	Wood	1,600	96	14
CG4X1C-3200		Orange	900 lb.	66 x 41	Wood	3,200	250	14
CG4X1C-6500		Orange	900 lb.	96 x 41	Wood	6,500	700	14
CG4X1-900S		Orange	Empty/Split	48 x 28	Wood	900	79	14
CH4X1C-350		Orange	900 lb.	48 x 28	Wood	350	79	16
CH4X1C-1200	1½	Orange	900 lb.	48 x 45	Wood	1,200	96	16
CH4X1C-4000		Orange	900 lb.	82 x 41	Wood	4,000	365	16
CJ4X1-200S		Orange	Empty/Split	48 x 28	Wood	200	79	21
CJ4X1C-225		Orange	900 lb.	48 x 28	Wood	225	79	21
CJ4X1C-700	2	Orange	900 lb.	48 x 45	Wood	700	96	21
CJ4X1C-1400		Orange	900 lb.	82 x 41	Wood	1,400	365	21
CJ4X1C-2000		Orange	900 lb.	82 x 41	Wood	2,000	365	21
CJ4X1C-2800		Orange	900 lb.	82 x 41	Wood	2,800	365	21
CL4X1C-150	3	Orange	900 lb.	48 x 45	Wood	150	96	41

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Features:

- For use in plenum areas per NEC® Articles 725, 770, 800 and 820
- Sizes ½" through 3"
- Pre-installed pull tape available in sizes ½" through 3"
- Outside diameters meet IPS dimensions
- UL Listed raceway meeting UL 2024
- Footage sequentially marked
- Single-peak design

Standard Stock — Coils

CAT. NO.	SIZE (IN.)	COLOR	PULL TAPE	COIL LENGTH (FT.)	PRODUCT WT. PER 100 FT. (LBS.)
CD4X1C-500	½	Orange	900 lb.	500	7
CE4X1-350*	¾	Orange	Empty	350	8
CE4X1-350S		Orange	Empty/Split	350	8
CF4X1C-100*		Orange	900 lb.	100	10
CF4X1-100S*		Orange	Empty/Split	100	10
CF4X1C-250*	1	Orange	900 lb.	250	10
CF4X1-250		Orange	Empty	250	10
CF4X1-250S*		Orange	Empty/Split	250	10
CG4X1C-200*	1¼	Orange	900 lb.	200	14
CG4X1-200S		Orange	Empty/Split	200	14
CH4X1C-150*	1½	Orange	900 lb.	150	16
CH4X1-150S		Orange	Empty/Split	150	16
CJ4X1C-100*	2	Orange	900 lb.	100	21
CJ4X1-100S		Orange	Empty/Split	100	21

* Overnight Shippable

Specifications

SIZE (IN.)	I.D. MIN. REF. (IN.)	MIN. O.D. (IN.)	MAX. O.D. (IN.)	MIN. BEND RADIUS (IN.)
½	.60	.815	.835	2
¾	.74	1.025	1.045	2
1	1.00	1.292	1.312	3
1¼	1.35	1.630	1.650	3
1½	1.50	1.868	1.888	4
2	2.00	2.329	2.439	4
3	3.00	3.422	3.452	4

Custom Orders

How to Build a Part Number:

POSITION 1 PRODUCT	POSITION 2 SIZE (IN.)	POSITION 3 TYPE	POSITION 4 WALL	POSITION 5 COLOR	POSITION 6 PULL LINE	POSITION 7 LENGTH
C = PLENUM-GARD	D = ½ E = ¾ F = 1 G = 1¼ H = 1½ J = 2 L = 3	4 = CORRUGATED	X = STANDARD	1 = ORANGE 2 = BLACK 3 = GRAY 4 = WHITE 5 = BLUE 7 = YELLOW 8 = RED	C = 900 LB. TAPE	EXAMPLE -1000 = FEET -1000S = 1000 FEET SPLIT

- Custom orders are not returnable
 - Custom lengths are available in minimum order quantities of 1,000 ft.
 - Custom color runs are available in minimum order quantities of 10,000 ft.
- Options:**
- Color: Black, Blue, Gray, Red, White and Yellow
 - Two-, three- or four-way parallel
 - Split duct
 - Custom print line

Carlton®

Riser-Gard®



Applications: Riser and General Purpose

Riser-Gard®

Riser-Gard® is a non-metallic flexible raceway for use in riser and general purpose applications. Riser-Gard® is UL Listed and is available with tape pre-installed. Riser-Gard is listed to UL 2024 Standard for riser applications or optical fiber/communications raceways.

Riser-Gard® is listed to UL 2024 in accordance with the National Electrical Code® per Articles 725, 770, 800 and 820 for riser, general purpose and other cabling optical fiber/telecommunication applications. Riser-Gard® is suitable for use in vertical runs in a shaft or between floors, as well as areas other than the plenum.

Important: Installed cables must be of suitable rating for the application.

Technical Info

UL LISTED TO 2024	TEST METHOD	MAXIMUM VALUE
Maximum Flame Propagation	UL 2024	6.0 ft.
Maximum Air Temperature at 12 ft.	UL 2024	372° F

- Storage: -4° to 158° F
- Handling: -4° to 104° F
- No UV protection (not suitable for outdoor use)
- Do not store outside

Standard Stock — Reels

CAT. NO.	SIZE (IN.)	COLOR	PULL TAPE	REEL SIZE (F X W) (IN.)	REEL TYPE	REEL LENGTH (FT.)	REEL WT. (LBS.)	PRODUCT WT. PER 100 FT. (LBS.)
DE4X1-1000	1	Orange	Empty	34 x 23	W	1,000	30	12
DF4X1C-500R		Orange	900 lb.	43 x 23	W	500	56	15
DF4X1C-1000		Orange	900 lb.	48 x 28	W	1,000	79	15
DF4X1C-1500		Orange	900 lb.	48 x 28	W	1,500	79	15
DF4X1C-2700		Orange	900 lb.	48 x 45	W	2,700	96	15
DF4X1C-5200		Orange	900 lb.	66 x 41	W	5,200	250	15
DF4X1C-6500		Orange	900 lb.	72 x 41	W	6,500	310	15
DF4X1C-7000		Orange	900 lb.	72 x 45	S	7,000	148	15
DF4X1C-9400		Orange	900 lb.	84 x 45	S	9,400	199	15
DG4X1C-900		Orange	900 lb.	48 x 28	W	900	79	17
DG4X1C-500R	1½	Orange	900 lb.	48 x 23	W	500	56	17
DG4X1C-1500		Orange	900 lb.	48 x 45	W	1,500	96	17
DG4X1C-1600		Orange	900 lb.	48 x 45	W	1,600	96	17
DG4X1C-3200		Orange	900 lb.	66 x 41	W	3,200	250	17
DG4X1C-4500		Orange	900 lb.	72 x 45	S	4,500	148	17
DG4X1C-5600		Orange	900 lb.	82 x 41	W	5,600	365	17
DG4X1C-6500		Orange	900 lb.	96 x 41	S	6,500	700	17
DH4X1C-1200		Orange	900 lb.	48 x 45	W	1,200	96	22
DH4X1C-4000	2	Orange	900 lb.	82 x 45	S	400	193	22
DH4X1C-4500		Orange	900 lb.	84 x 45	S	4,500	199	22
DJ4X1C-700		Orange	900 lb.	48 x 45	W	700	96	27
DJ4X1C-2000	3	Orange	900 lb.	82 x 41	W	200	265	27
DJ4X1C-2800		Orange	900 lb.	84 x 45	S	2,800	199	27
DL4X1C-750		Orange	900 lb.	72 x 41	W	750	310	27

W = Wood
S = Steel

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Features:

- For use in riser and general purpose areas per NEC® Articles 725, 770, 800 and 820
- Riser-Gard® is also suitable for direct burial. Not approved for exposed applications

NOTE: UL has not evaluated Riser-Gard® for this application.

- UL Listed raceway meeting UL 2024
- Available in sizes ¾" through 3"
- Pull tape can be factory pre-installed in 1" through 3"
- Outside diameters meet IPS dimensions
- Footage sequentially marked

Standard Stock — Coils

CAT. NO.	SIZE (IN.)	COLOR	PULL TAPE	COIL LENGTH (FT.)	PRODUCT WT. PER 100 FT. (LBS.)
DE4X1-350*	¾	Orange	Empty	350	12
DF4X1C-125		Orange	900 lb.	125	15
DF4X1C-250*		Orange	900 lb.	250	15
DF4X1-250	1	Orange	Empty	250	15
DF4X1C-500		Orange	900 lb.	500	15
DF4X1-250S*		Orange	Empty/Split	250	15
DG4X1-200		Orange	Empty	200	17
DG4X1-200S*	1¼	Orange	Empty/Split	200	17
DG4X1C-200*		Orange	900 lb.	200	17
DG4X1C-500		Orange	900 lb.	500	17
DH4X1-150S	1½	Orange	Empty/Split	150	22
DH4X1C-150*		Orange	900 lb.	150	22
DJ4X1-100S	2	Orange	Empty/Split	100	27
DJ4X1C-100*		Orange	900 lb.	100	27
DL4X1C-250	3	Orange	900 lb.	250	27

* Overnight Shippable

Specifications

SIZE (IN.)	I.D. MIN. REF. (IN.)	MIN. O.D. (IN.)	MAX. O.D. (IN.)	MIN. BEND RADIUS (IN.)
¾	.74	1.025	1.075	5
1	.98	1.290	1.340	6
1¼	1.31	1.640	1.690	8
1½	1.54	1.880	1.930	10
2	2.00	2.350	2.400	12
3	3.00	3.422	3.452	18

Custom Orders

How to Build a Part Number:

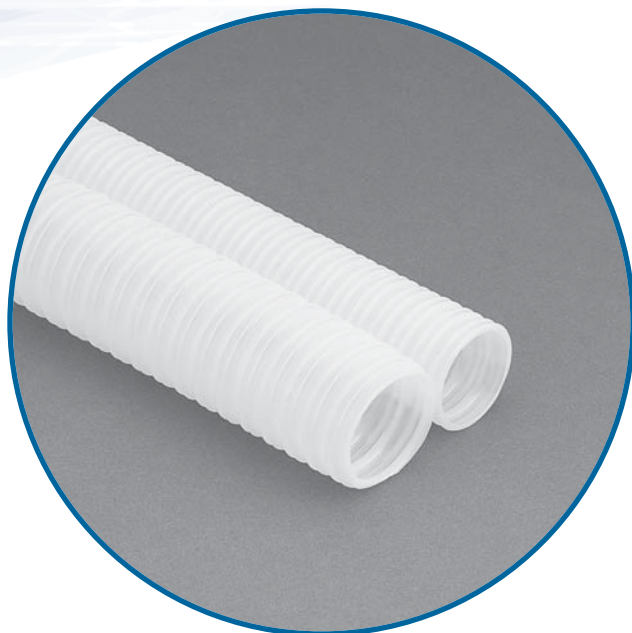
POSITION 1 PRODUCT	POSITION 2 SIZE (IN.)	POSITION 3 TYPE	POSITION 4 WALL	POSITION 5 COLOR	POSITION 6 PULL LINE	POSITION 7 LENGTH
D = RISER-GARD	E = ¾ F = 1 G = 1¼ H = 1½ J = 2 L = 3	4 = CORRUGATED	X = STANDARD	1 = ORANGE 2 = BLACK 3 = GRAY 4 = WHITE 5 = BLUE 7 = YELLOW 8 = RED	C = 900 LB. TAPE	EXAMPLE -1000 = FEET -1000S = 1000 FEET SPLIT

- Custom orders are not returnable
- Custom lengths are available in minimum order quantities of 1,000 ft.
- Custom color runs are available in minimum order quantities of 10,000 ft.

- Options:**
- Color: Black, Blue, Gray, Red, White and Yellow
 - Two-, three- or four-way parallel
 - Split duct
 - Custom print line

Carlton®

Hal-Free Riser-Gard®



Applications: Riser and General Purpose



Hal-Free Riser-Gard®

Hal-Free Riser-Gard® is a halogen-free non-metallic flexible raceway for use in riser and general purpose applications. In the event of a fire, this product will not release halogen elements into the air, which makes it ideal for applications in tunnels, laboratories and high-tech environments. Hal-Free Riser-Gard® is listed to UL 2024 in accordance with NEC® Articles 725, 770, 800 and 820. Custom lengths and split ducts are available upon request. Hal-Free Riser-Gard® is available in white only.

Features:

- Free from halogen elements
- Compliant with NEC® Articles 725, 770, 800 and 820
- Available in sizes 1" through 2"
- Available in white only
- Sequentially marked footage

Technical Info

UL LISTED TO 2024	TEST METHOD	MAXIMUM VALUE
Maximum Flame Propagation	UL 2024	3'6"
Maximum Air Temperature	UL 2024	387° F

- Storage and Handling: -4° to 150° F
- No UV protection (not suitable for outdoor use)
- Do not store outside

Standard Stock — Reels

CAT. NO.	SIZE (IN.)	COLOR	NOM. I.D. (IN.)	NOM. O.D. (IN.)	PULL TAPE	REEL SIZE (F X W) (IN.)	REEL TYPE	REEL LENGTH (FT.)	REEL WT. (LBS.)	PRODUCT WT. PER 100 FT. (LBS.)
HF4X4C-5000	1	White	1.049	1.365	900 lb.	72" x 41"	W	5,000	310	7.5
HG4X4C-4000	1¼	White	1.250	1.550	900 lb.	72" x 41"	W	4,000	310	7.5
HH4X4C-2000	1½	White	1.500	1.850	900 lb.	66" x 41"	W	2,000	250	12
HJ4X4C-2000	2	White	2.000	2.425	900 lb.	82" x 41"	W	2,000	365	21

Custom Orders

How to Build a Part Number:

POSITION 1 PRODUCT	POSITION 2 SIZE (IN.)	POSITION 3 TYPE	POSITION 4 WALL	POSITION 5 COLOR	POSITION 6 PULL LINE	POSITION 7 LENGTH
H = HAL-FREE	F = 1 G = 1¼ H = 1½ J = 2	4 = CORRUGATED	X = STANDARD	4 = WHITE	C = 900 LB. TAPE	EXAMPLE -1000 = FEET -1000S = 1000 FEET SPLIT

- Custom orders are not returnable
- Custom lengths are available in minimum order quantities of 1,000 ft.

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Carlon® Plenum Duct

Technical Info:

- Maximum flame propagation distance is less than 5.0 ft.
- The peak optical density of smoke is less than 0.50
- The average optical density of smoke is less than 0.15
- UL Listed to UL 2024 Standard
- FT-6 Rated



Applications: Plenum, Riser and General Purpose Applications per NEC® Articles 725, 770, 800 and 820

Standard Stock — Reels

CAT. NO.	SIZE (IN.)	COLOR	PULL TAPE	REEL SIZE (IN.)	REEL LENGTH (FT.)	REEL WT. (LBS.)	PRODUCT WT. PER 100 FT. (LBS.)
PLM100T-500	1	White	900 lb.	34 x 23	500	30	10
PLM100T-1800		White	900 lb.	48 x 28	1,800	79	10
PLM100T-5000		White	900 lb.	72 x 41	5,000	310	10
PLM100T-8000		White	900 lb.	82 x 41	8,000	365	10
PLM125T-500	1¼	White	900 lb.	34 x 23	500	30	14
PLM125T-1000		White	900 lb.	48 x 30	1,000	83	14
PLM125T-5000		White	900 lb.	72 x 41	5,000	310	14
PLM125T-6000		White	900 lb.	82 x 41	6,000	365	14
PLM150T-2000	1½	White	900 lb.	66 x 41	2,000	250	14
PLM150T-4000		White	900 lb.	82 x 41	4,000	365	14
PLM200T-2000	2	White	900 lb.	82 x 41	2,000	365	21

Standard Stock — Coils/Box

CAT. NO.	SIZE (IN.)	COLOR	PULL TAPE	BOX SIZE (IN.)	COIL LENGTH (FT.)	PRODUCT WT. PER 100 FT. (LBS.)
PLM100T-250B2	1	White	900 lb.	34 x 14 x 34	250	10
PLM125T-250B4	1¼	White	900 lb.	39 x 15 x 39	250	14

Specifications

SIZE	I.D. MIN. REF.	MIN. O.D.	MAX. O.D.	MIN. BEND RADIUS
½	.60	.815	.835	2
¾	.74	1.025	1.045	2
1	1.00	1.292	1.312	3
1¼	1.35	1.630	1.650	3
1½	1.50	1.868	1.888	4
2	2.00	2.329	2.439	4

All measurements are in inches unless otherwise noted.

Custom Orders

How to Build a Part Number:

POSITION 1 PRODUCT	POSITION 2 SIZE (IN.)	POSITION 3 PULL LINE	POSITION 4 LENGTH
PLM = PLENUM	100 = 1	T = 900 LB. TAPE	EXAMPLE
	125 = 1¼		-1000 = FEET
	150 = 1½		
	200 = 2		

Carlon®

Carlon® Duct



Carlon® Riser Duct

Applications: Riser and General Purpose
Applications per NEC® Articles 725, 770,
800 and 820. Suitable for vertical runs
in a shaft or between floors.

Technical Info:

- Maximum flame propagation: 6.0 ft. max. value
- Do not store outside
- No UV protection
- UL Listed to UL 2024
- FT-4 Rated

Standard Stock — Reels

CAT. NO.	SIZE (IN.)	COLOR	PULL TAPE	REEL SIZE (IN.)	REEL LENGTH (FT.)	REEL WT. (LBS.)	PRODUCT WT. PER 100 FT. (LBS.)
RIS100T-5000	1	Orange	900 lb.	66 x 41	5,000	250	15
RIS125T-4000	1¼	Orange	900 lb.	72 x 41	4,000	310	17
RIS150T-2000	1½	Orange	900 lb.	66 x 41	2,000	250	22
RIS200T-2000	2	Orange	900 lb.	66 x 41	2,000	250	27

Specifications

SIZE (IN.)	I.D. MIN. REF. (IN.)	MIN. O.D. (IN.)	MAX. O.D. (IN.)	MIN. BEND RADIUS (IN.)
¾	.74	1.025	1.075	6
1	.98	1.290	1.340	6
1¼	1.31	1.640	1.690	7
1½	1.54	1.880	1.930	8¼
2	2.00	2.350	2.400	9½

Custom Orders How to Build a Part Number:

POSITION 1 PRODUCT	POSITION 2 SIZE (IN.)	POSITION 3 PULL LINE	POSITION 4 LENGTH
RIS = RISER	100 = 1 125 = 1¼ 150 = 1½ 200 = 2	T = 900 LB. TAPE	EXAMPLE -1000 = FEET

Carlon® Hal-Free Riser Duct



Applications: Riser and General Purpose
Applications per NEC Articles 725, 770,
800 and 820.

Technical Info:

- Maximum flame propagation: 6.0 ft. max. value
- Do not store outside
- No UV protection
- UL Listed to UL 2024 Standard
- FT-4 Rated

Standard Stock — Reels

CAT. NO.	SIZE (IN.)	COLOR	PULL TAPE	REEL SIZE (IN.)	REEL LENGTH (FT.)	REEL WT. (LBS.)	PRODUCT WT. PER 100 FT. (LBS.)
RHF100T-5000	1	White	900 lb.	66 x 41	5,000	250	15
RHF125T-4000	1¼	White	900 lb.	72 x 41	4,000	310	17
RHF150T-2000	1½	White	900 lb.	66 x 41	2,000	250	22
RHF200T-2000	2	White	900 lb.	82 x 41	2,000	365	27

Specifications

SIZE (IN.)	I.D. MIN. REF. (IN.)	MIN. O.D. (IN.)	MAX. O.D. (IN.)	MIN. BEND RADIUS (IN.)
¾	.74	1.025	1.075	6
1	.98	1.290	1.340	6
1¼	1.31	1.640	1.690	7
1½	1.54	1.880	1.930	8¼
2	2.00	2.350	2.400	9½

Custom Orders How to Build a Part Number:

POSITION 1 PRODUCT	POSITION 2 SIZE (IN.)	POSITION 3 PULL LINE	POSITION 4 LENGTH
RHF = HAL-FREE RISER	100 = 1 125 = 1¼ 150 = 1½ 200 = 2	T = 900 LB. TAPE	EXAMPLE -1000 = FEET

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Small. Slick. Speedy. Ideal for Telecom Installs!

Carlton® Micro-Gard® Plenum and Micro-Gard® Riser

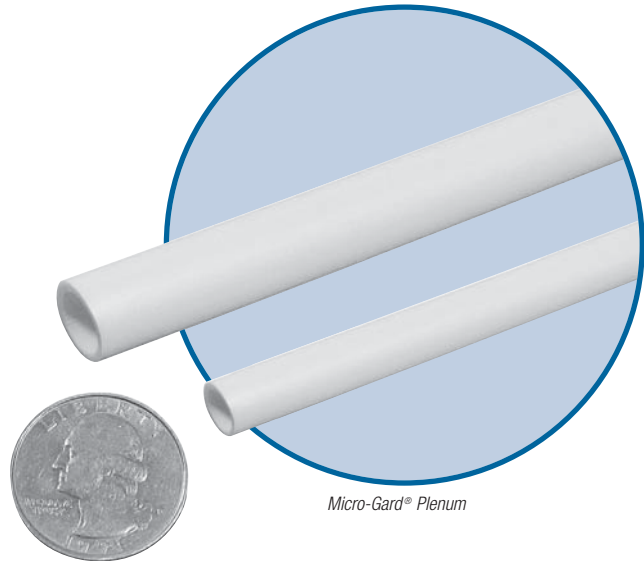
Carlton® Micro-Gard® Plenum and Micro-Gard® Riser is specifically designed to provide fiber pathways in plenum and riser applications in Multi-Dwelling Units (MDUs) and other premise structures.

The 8/6 and 12/10 mm size conduits can be installed individually or used to optimize space in existing duct structures. And the small size significantly reduces the structural damage caused during pass-throughs.

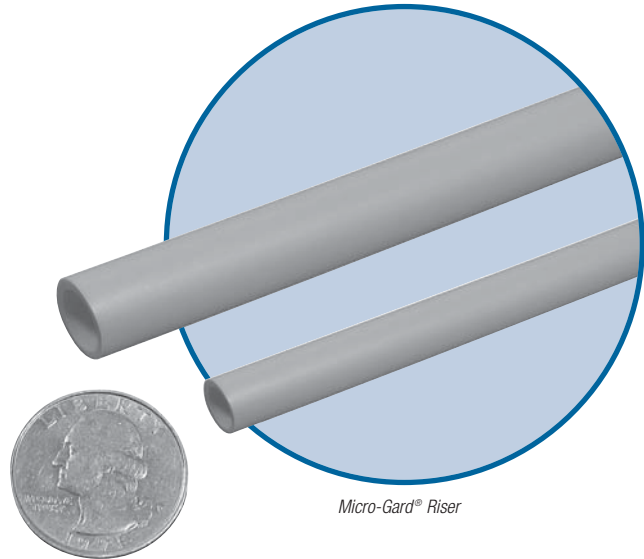
Micro-Gard® Plenum and Riser is UL Listed for plenum and riser applications. It's easy to handle, easy to install and easy to conceal, making it the ideal MDU cable management system.

Features:

- UL and cUL Listed to UL 2024 for plenum and riser applications
- Compliant with NEC® Articles 725, 770, 800 and 820
- Two sizes: 8/6mm and 12/10mm. The smaller sizes accommodate the size constraints of multi-dwelling units and make installations faster and easier
- Smooth interior wall eliminates snag points and provides low coefficient of friction, regardless of whether jetting or pull-tape is used
- Superior burn-through resistance for longer cable pulls
- Pre-lubricated, factory installed pull-tape makes installing cable faster and easier (option available for empty duct)
- Sequentially marked footage to easily identify lengths and reduce waste
- Reel sizes from 1,000 to 5,000 feet for easy handling on the jobsite
- Future-proofing raceway system for fast, easy wire/cable upgrades, changes and moves
- Used in cable bundles



Micro-Gard® Plenum



Micro-Gard® Riser



Carlton® Micro-Gard® Plenum and Micro-Gard® Riser

CAT NO.	SIZE	TYPE	COLOR	PRE-LUBRICATED FACTORY INSTALLED	MIN. BEND RADIUS (IN.)*	FEET/REEL	REEL SIZE (IN.)
MGP08MT-1000	8/6 mm	Plenum	White	50 lb. Cord	2	1,000	24
MGP08MT-2500	8/6 mm	Plenum	White	50 lb. Cord	2	2,500	24
MGP08MT-5000	8/6 mm	Plenum	White	50 lb. Cord	2	5,000	36
MGP12MT-1000	12/10 mm	Plenum	White	50 lb. Cord	4	1,000	24
MGP12MT-2500	12/10 mm	Plenum	White	50 lb. Cord	4	2,500	24
MGP12MT-5000	12/10 mm	Plenum	White	50 lb. Cord	4	5,000	36
MGR08JT-1000	8/6 mm	Riser	Orange	50 lb. Cord	2	1,000	24
MGR08JT-2500	8/6 mm	Riser	Orange	50 lb. Cord	2	2,500	24
MGR08JT-5000	8/6 mm	Riser	Orange	50 lb. Cord	2	5,000	36
MGR12JT-1000	12/10 mm	Riser	Orange	50 lb. Cord	4	1,000	24
MGR12JT-2500	12/10 mm	Riser	Orange	50 lb. Cord	4	2,500	24
MGR12JT-5000	12/10 mm	Riser	Orange	50 lb. Cord	4	5,000	36

*NOTE: Do not exceed the minimum bend radius during installation of the product.

Micro-Gard® Plenum Dimensions — Smooth O.D./Ribbed I.D.

CAT. NO.	OUTSIDE DIAMETER		WALL		INSIDE DIA. (MIN.)			STD. WT. (LB./100 FT.)
	INCH	MM	INCH	MM	INCH	MM	# RIBS	
MGP12RMT	0.472 +/- 0.004	12 +/- 0.1	0.047 +0/-0.004	1 +0/-0.1	0.354	8.9	26	4.92
MGP08RMT	0.315 +/- 0.004	8 +/- 0.1	0.040 +0/-0.004	1 +0/-0.1	0.212	5.4	16	2.68

Micro-Gard® Riser Dimensions — Smooth O.D./Ribbed I.D.

CAT. NO.	OUTSIDE DIAMETER		WALL		INSIDE DIA. (MIN.)			STD. WT. (LB./100 FT.)
	INCH	MM	INCH	MM	INCH	MM	# RIBS	
MGR12RJ	0.472 +/- 0.004	12 +/- 0.1	0.047 +0/-0.004	1 +0/-0.1	0.354	8.9	26	2.86
MGR08RJ	0.315 +/- 0.004	8 +/- 0.1	0.040 +0/-0.004	1 +0/-0.1	0.212	5.4	16	1.55

How to Interpret a Part Number

POSITION 1 PRODUCT	POSITION 2 TYPE	POSITION 3 SIZE	POSITION 4 COLOR	POSITION 5 PULL LINE	POSITION 6 LENGTH
MG = MICRO-GARD	P = PLENUM R = RISER	08 = 8/6MM 12 = 12/10MM	J = ORANGE M = WHITE	T = 50 LB. CORD	EXAMPLE -1000 = FEET



For use with Riser-Gard® and General Purpose Non-Metallic Adapters and Couplings



Couplings

CAT. NO.	SIZE (IN.)	COLOR	STD. CTN.	STD. WT. (LBS.)
SCA240E	¾	Orange	25	.783
SCA240F	1	Orange	20	.972



Threaded Adapters

CAT. NO.	SIZE (IN.)	COLOR	STD. CTN.	STD. WT. (LBS.)
SCA243E	¾	Orange	100	2.30
SCA243F	1	Orange	50	2.00



Snap-In Adapters

CAT. NO.	SIZE (IN.)	COLOR	STD. CTN.	STD. WT. (LBS.)
SCA253E	¾	Orange	100	2.90
SCA253F	1	Orange	50	2.30



For use with Plenum-Gard® Non-Metallic Adapters and Couplings



Couplings

CAT. NO.	SIZE (IN.)	COLOR	STD. CTN.	STD. WT. (LBS.)
A340F	1	Orange	50	2.50



Threaded Adapters

CAT. NO.	SIZE (IN.)	COLOR	STD. CTN.	STD. WT. (LBS.)
A343F	1	Orange	50	1.55



Snap-In Adapters

CAT. NO.	SIZE (IN.)	COLOR	STD. CTN.	STD. WT. (LBS.)
A353F	1	Orange	50	3.00



Carlon®

Flexible Raceway Accessories

For use with Riser-Gard® and General Purpose Non-Metallic Adapters and Couplings

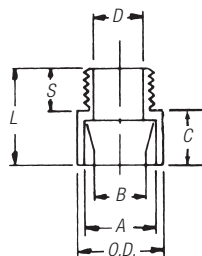


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Except where noted by ►

Male Terminal Adapters

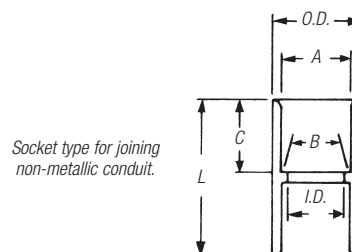
For adapting non-metallic conduits to boxes, threaded fittings, metallic systems. Male threads on one end, socket end on other.



CAT. NO.	SIZE (IN.)	STD. CTN.	COLOR	DIMENSIONS (IN.)							STD. WT. (LBS.)
				TYPICAL		MIN. D	MAX. O.D.	TYPICAL			
				A	B			C	T	L	
E943E	¾	125	Gray	1.064	1.046	.800	1½ ₃₂	¾	⅝	1⅝	3.5
E943F	1	50	Gray	1.330	1.310	1.018	1⅝	1	1⅞	1⅝ ₃₂	3
E943G	1¼	50	Gray	1.677	1.655	1.332	2⅞	1	¾	1⅞ ₁₆	4
E943H	1½	25	Gray	1.918	1.894	1.566	2⅝	1⅞	¾	2⅞	2.5
E943J	2	50	Gray	2.393	2.369	2.000	2⅝ ₃₂	1⅞	¾	2⅞	7
SCE943G	1¼	50	Orange	1.677	1.655	1.332	2⅝	1	¾	1⅞ ₁₆	4
SCE943H	1½	25	Orange	1.918	1.894	1.566	2⅝	1⅞	¾	2⅞	2.5
SCE943J	2	50	Orange	2.393	2.369	2.000	2⅝ ₃₂	1⅞	¾	2⅞	7

Standard Couplings

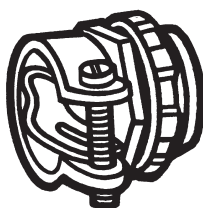
All socket fittings should be attached Using Carlon® solvent cement. Using Carlon® fittings with Carlon® non-metallic conduit ensures system integrity.



CAT. NO.	SIZE (IN.)	STD. CTN.	COLOR	DIMENSIONS (IN.)							STD. WT. (LBS.)
				TYPICAL		MIN. D	MAX. O.D.	TYPICAL			
				A	B			C	L		
E940E	¾	100	Gray	1.064	1.046	.840	1⅜	¾	1⅝	4.4	
E940F	1	50	Gray	1.330	1.310	1.210	1⅝	1⅜	2	3.5	
E940G	1¼	30	Gray	1.677	1.655	1.535	1⅞	1	2⅝	3.5	
E940H	1½	25	Gray	1.918	1.894	1.755	2⅞	1⅝	2⅝	3.9	
E940J	2	30	Gray	2.393	2.369	2.190	2⅞	1⅞	2⅝	5.25	
SCE940G	1¼	30	Orange	1.677	1.655	1.535	1⅞	1	2⅝	3.5	
SCE940H	1½	25	Orange	1.918	1.894	1.755	2⅞	1⅝	2⅝	3.9	
SCE940J	2	30	Orange	2.393	2.369	2.190	2⅞	1⅞	2⅝	5.25	

Metallic Adapter

For use with Plenum-Gard®
Metallic Terminal Adapter



CAT. NO.	SIZE (IN.)	STD. CTN.	STD. WT. (LBS.)
► 255	3/4	10	12
► 256	1	100	25
► 257	1 1/4	100	28
► 258	1 1/2	100	35
► 259	2	50	19

Washers Flat Sealing Washer

Where a waterproof termination is required into any enclosure (metallic or non-metallic), install the neoprene washer over the threads of a terminal adapter before inserting into the enclosure. Use a standard locknut or threaded bushing to secure the assembly.



CAT. NO.	SIZE (IN.)	STD. CTN.	STD. WT. (LBS.)
► E943EW	3/4	125	.45
► E943FW	1	100	.46
► E943GW	1 1/4	50	.44
► E943HW	1 1/2	50	.45
► E943JW	2	25	.42

Thomas & Betts

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Fax: 901.252.1321

Tool Services
Tel: 800.284.8665



Low-Voltage Boxes & Brackets

Dual-Voltage Box/Bracket



CAT. NO.	COVER	VOLUME	STD. CTN.	STD. WT. (LBS.)
SC200DV	1-Gang	20.5 cu. in	16	6.4



SC200DV

Low-Voltage Add-On Bracket



CAT. NO.	SIZE	STD. CTN.	STD. WT. (LBS.)
SC100SC	1-Gang	24	2.3



SC100SC

Low-Voltage Adjustable Brackets



CAT. NO.	SIZE	STD. CTN.	STD. WT. (LBS.)
SC100ADJC	1-Gang	24	7.5
SC200ADJC	2-Gang	20	6.9



SC100ADJC

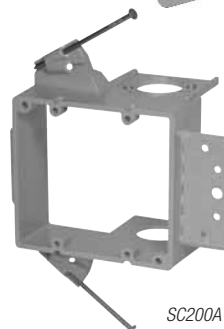
Low-Voltage Brackets



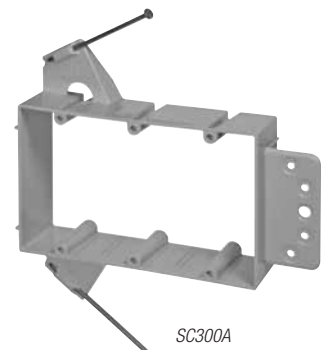
CAT. NO.	SIZE	RESI-RINGS	STD. CTN.	STD. WT. (LBS.)
SC100A	1-Gang	¾, 1, 1¼	24	5.3
SC200A	2-Gang	¾, 1, 1¼	24	7.7
SC300A	3-Gang	—	5	1.6



SC100A



SC200A



SC300A

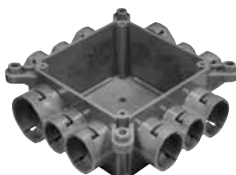
Mud Box Assemblies

Carlton® Mud Box Assemblies are available in five unique styles — blank, ceiling ring, one-gang, two-gang and 4 square. All Mud Box Assemblies include cement caps and are manufactured out of polycarbonate material to provide extra strength and durability. They are concrete tight and have 12 integral connectors...two 1", six ¾" and four ½". Using our new ENT Reducers, this product will meet ANY jobsite application.



Except where noted by ▶

Mud Box Base with Blank Cover



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
▶ A863BC	Mud Box with Blank Cover	24	12.3

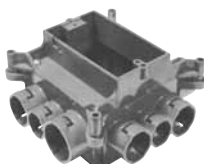
Mud Box with Ceiling Ring

- Threaded brass inserts for fan (#10-32 screws) and fixture (#8-32 screws) mountings
- Listed for fixture support up to 50 lbs.
- Listed for ceiling fans up to 35 lbs.



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
▶ A863CF	Mud Box with Ceiling Ring	24	15.5
A863CFG	Mud Box with Ceiling Ring and Ground Lug	24	16.1

Mud Box with One-Gang Ring



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
▶ A863S	Mud Box with One-Gang Ring	24	16.8
A863SG	Mud Box with One-Gang Ring and Ground Lug	24	16.2

Mud Box with Two-Gang Ring



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
▶ A863D	Mud Box with Two-Gang Ring	24	15.8
A863DG	Mud Box with Two-Gang Ring and Ground Lug	24	16.6

Mud Box with 4" Square Ring

- 4" Square Ring not for luminaries



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
▶ A863-4SQ	Mud Box with 4-Inch Square Ring	24	15.2

Mud Box Assemblies with Mounting Feet

Carlton® Mud Box Assemblies with Mounting Feet are specifically engineered and designed for use in tunnel form applications. The mounting feet are located on all four corners and enable the box to attach directly to the wall of the form using pop rivets. The pop rivets help keep the box in position during the pour and provide a safe, secure and rust-resistant mount.



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A863-4SQF	4-Square Ring	24	17.15
A863CFF	Ceiling Ring	24	16.61
A863CFGF	Ceiling Ring and Ground Lug	24	17.46
A863DF	Double-Gang	24	17.42
A863DGF	Double-Gang and Ground Lug	24	17.99
A863SF	Single-Gang	24	17.15
A863SGF	Single-Gang and Ground Lug	24	17.44

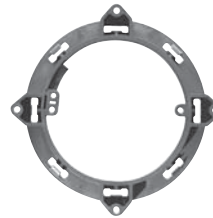
For use with Riser-Gard® and General Purpose 2½" & 4" Mud Boxes with Covers

- Classified for 2-hour-or-less floor/ceiling assemblies

Base Rings

Listed for use with ceiling fans up to 35 lbs. and for fixture support up to 50 lbs.

CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A861	Without Ground Lug	10	2.5
CA861G	With Ground Lug	10	2.0



Covers

CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A862D	2½" Deep (½" KOs)	10	2.5
A862E	2½" Deep (¾" KOs)	10	2.1
A864D	4" Deep (½" KOs)	10	2.9
A864E	4" Deep (¾" KOs)	10	2.9
A864F	4" Deep (1" KOs)	10	3.0



For use with Riser-Gard® and General Purpose Quick Connect Outlet and Switch Boxes

- Suitable for masonry walls
- Meet NEMA OS-2
- Classified for 2-hour-or-less fire wall assemblies

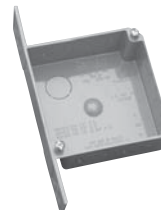
Single Gang — 16 Cu. In.

CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A58381D	3 x 2¼ x 3 (½" KOs)	25	4.6
A58381E	3 x 2¼ x 3 (¾" KOs)	25	4.6



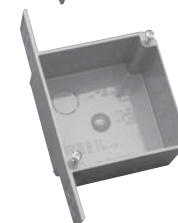
Two Gang — 20 Cu. In.

CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A52151D	4 x 4 x 1½ (½" KOs)	100	22.6
A52151E	4 x 4 x 1½ (¾" KOs)	100	22.6
A521DE	4 x 4 x 1½ (½" & ¾" KOs)	100	22.6



Two Gang — 30.3 Cu. In.

CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A52171D	4 x 4 x 2½ (½" KOs)	25	7.6
A52171E	4 x 4 x 2½ (¾" KOs)	25	7.6
A5217DE	4 x 4 x 2½ (½" & ¾" KOs)	25	7.6



Carlton®

Flexible Raceway Accessories

For use with Riser-Gard® and General Purpose

ENT Box with Adapters

- Classified for 2-hour-or-less fire wall assemblies

Two-Gang — 24.75 Cu. In. ENT Box with Adapters



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A5329DE	4 x 4 x 1 1/4" (1/2" & 3/4" KOs) Six 1/2" Adapters and Three 3/4" Adapters	50	14.8

Box Back Wall Support



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
▶ A540DS	For Use with 1/2" Knockout	100	2.1

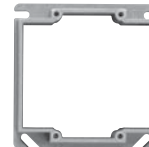


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For use with Riser-Gard® and General Purpose

ENT Box Extenders

- Classified for 2-hour-or-less fire wall assemblies



Single-Gang

CAT. NO.	RISE (IN.)	CU. IN.	STD. CTN.	STD. WT. (LBS.)
A410	1/2	3.5	100	7.7
A411	3/4	4.2	50	4.6
A412	1	5.0	50	5.1
A413	1 1/4	6.6	40	5
A414	1 3/4	8.1	30	4.4

Two-Gang

CAT. NO.	RISE (IN.)	CU. IN.	STD. CTN.	STD. WT. (LBS.)
A400	Blank	—	100	7.7
A420	1/2	6.1	75	5.0
A421	3/4	7.4	50	4.2
A422	1	8.8	50	4.8



E11461

For use with Riser-Gard® and General Purpose

Round Covers for Octagon Ceiling Boxes

- Classified for 2-hour-or-less fire wall assemblies

Suitable for fixture support

Round Plaster Rings



CAT. NO.	RISE (IN.)	CU. IN.	STD. CTN.	STD. WT. (LBS.)
A471	1/2	3.2	100	3.3
A472	3/4	4.0	100	3.7

Round Blank Covers



CAT. NO.	RISE	CU. IN.	STD. CTN.	STD. WT. (LBS.)
E460R-CAR	Blank	—	35	2.2
A470D	Blank with 1/2" KO	—	100	4.7



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Fax: 901.252.1321

Tool Services
Tel: 800.284.8665

For use with Riser-Gard® and General Purpose Quick Connect 4" Octagon Ceiling Boxes

- Carlon® ceiling boxes and round plaster rings are produced from a special high heat-resistant engineered plastic material developed specifically for fixture support

Ceiling Box — 20.5 Cu. In.



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A615D	(4) 2 1/8" Deep (1/2" KOs)	50	6.4
A615E	(4) 2 1/8" Deep (3/4" KOs)	50	6.4
A615DE	(4) 2 1/8" Deep (1/2" & 3/4" KOs)	50	6.4

Ceiling Box with J Mount — 20.5 Cu. In.



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A615DJ	(4) 2 1/8" Deep (1/2" KOs)	50	18.7

- Listed for fixture support up to 50 lbs.
- Classified for 2-hour-or-less fire floor/ceiling assemblies

Ceiling Box with L Bracket — 20.5 Cu. In.



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A615DL	(4) 2 1/8" Deep (1/2" KOs)	50	6.4

Ceiling Box with Adjustable Hanger Bar — 20.5 Cu. In.

Adjust from 14 1/4" to 23 3/4"



CAT. NO.	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
A615DH	(4) 2 1/8" Deep (1/2" KOs)	25	13.6

PVC Conduit Cutters

Small Cutter

For fast, smooth field cuts of 1/2" through 1" Riser-Gard® and Plenum-Gard.



CAT. NO.	DESCRIPTION	STD. CTN.
A615DH	(4) 2 1/8" Deep (1/2" KOs)	25

Large Cutter

For clean cuts of conduit 1/2" through 2".



CAT. NO.	DESCRIPTION	STD. CTN.
CC122	17 1/2"	1

Medium Cutter

Handheld cutter makes fast square, smooth field cuts on conduit from 1/2" through 1 1/4". Produces burr-free cut with no shavings. Fits into pocket or pouch.



CAT. NO.	DESCRIPTION	STD. CTN.
CC125	9"	12



E11461
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Carlon®

Flexible Raceway Accessories

Carlon® Cement

*Meets ASTM D2564

Medium — Clear

RECOMMENDED PIPE APPLICATION AND SIZES	SET-UP TIME (EVAPORATION RATE)		RECOMMENDED INSTALLATION TEMP.	LAP SHEAR @ 73°F	VISCOSITY AT 75° AS MANUFACTURED
Recommended for all grades and types of Carlon® wireway and fittings, except Flex-Plus® Blue™ ENT (Electrical Non-Metallic Tubing.)	10°–30°F	Not recommended	40° to 100°F	2 hrs. 350 psi	500–900 cps
	30°–50°F	5–6 minutes		16 hrs. 800 psi	
	50°–70°F	3–4 minutes		72 hrs. 1,500 psi	
	70°–90°F	1–2 minutes			

Up through 6" diameter.

CAT. NO.	SIZE	APPLICATOR	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
VC9963	Pint	Dauber	PVC Medium Clear	24	29.0
VC9962	Quart	Dauber	PVC Medium Clear	12	27.5
VC9961P	Gallon	—	PVC Medium Clear	6	53.5

Meets ASTM D-2564.



Regular — Clear

RECOMMENDED PIPE APPLICATION AND SIZES	SET-UP TIME (EVAPORATION RATE)		RECOMMENDED INSTALLATION TEMP.	LAP SHEAR @ 73°F	VISCOSITY AT 75° AS MANUFACTURED
Recommended for all grades and types of Carlon® wireway and fittings, except Flex-Plus® Blue™ ENT (Electrical Non-Metallic Tubing.)	10°–30°F	Not recommended	40° to 100°F	2 hrs. 350 psi	500–900 cps
	30°–50°F	5–6 minutes		16 hrs. 800 psi	
	50°–70°F	3–4 minutes		72 hrs. 1,500 psi	
	70°–90°F	1–2 minutes			

Up through 6" diameter.

CAT. NO.	SIZE	APPLICATOR	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
VC9964	½ Pint	Dauber	PVC Regular Clear	10	6.5

Meets ASTM D-2564.





All Weather — Clear

RECOMMENDED PIPE APPLICATION AND SIZES	SET-UP TIME (EVAPORATION RATE)	RECOMMENDED INSTALLATION TEMP.	LAP SHEAR @ 73°F	VISCOSITY AT 75° AS MANUFACTURED
Recommended for all grades and types of Carlton® wireway and fittings, except Flex-Plus® Blue™ ENT (Electrical Non-Metallic Tubing.) <i>Up through 6" diameter.</i>	-5°–10°F	6–8 Minutes	-5° to 100°F	2 Hrs. 350 PSI
	10°–30°F	4–5 Minutes	16 Hrs. 800 PSI	400–700 CPS
	30°–50°F	3–4 Minutes	72 Hrs. 1,500 PSI	
	50°–70°F	1–2 Minutes		
	70°–90°F	½–1½ Minutes		

CAT. NO.	SIZE	APPLICATOR	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
VC9984	½ Pint	Dauber	All Weather "Quick-Set" Cement	10	7.0
VC9983	Pint	Dauber	All Weather "Quick-Set" Cement	24	30.0
VC9982	Quart	Dauber	All Weather "Quick-Set" Cement	12	29.0
VC9981P	Gallon	—	All Weather "Quick-Set" Cement	6	54.0

Meets ASTM D-2564.



Low VOC — Gray

RECOMMENDED PIPE APPLICATION AND SIZES	SET-UP TIME (EVAPORATION RATE)	RECOMMENDED INSTALLATION TEMP.	LAP SHEAR @ 73°F	VISCOSITY AT 75° AS MANUFACTURED
Recommended for all grades and types of Carlton® wireway and fittings, except Flex-Plus® Blue™ ENT (Electrical Non-Metallic Tubing.) <i>Up through 6" diameter.</i> VOC emission of 490 grams/liter per the Bay and South Coast test method.	10°–30°F	Not recommended	40° to 100°F	2 hrs. 350 psi
	30°–50°F	5–6 minutes		16 hrs. 800 psi
	50°–70°F	3–4 minutes		72 hrs. 1,500 psi
	70°–90°F	1–2 minutes		

CAT. NO.	SIZE	APPLICATOR	DESCRIPTION	STD. CTN.	STD. WT. (LBS.)
VC9LV4-24	½ Pint	Dauber	Low VOC Gray	24	15.5
VC9LV3	Pint	Dauber	Low VOC Gray	24	27.0
VC9LV2	Quart	Dauber	Low VOC Gray	12	26.0

Meets ASTM D-2564.



When Innerduct is being used inside the building...

Plenum

- Must be UL Listed
- Plenum cable must be installed
- Color: Industry standard orange
- Pull tape pre-installed in sizes ½" through 3"

CARLON®		PYRAMID®	
CAT. NO.	SIZE (IN.)	CAT. NO.	SIZE (IN.)
CD4X1C	½	PLM100T	1
CE4X1C	¾	PLM125T	1¼
CF4X1C	1	PLM150T	1½
CG4X1C	1¼	PLM200T	2
CH4X1C	1½		
CJ4X1C	2		
CL4X1C	3		

General Purpose and Riser

- Must be UL Listed
- Riser rated cable must be used in riser applications
- Color: Industry standard orange

CARLON®		PYRAMID®	
CAT. NO.	SIZE (IN.)	CAT. NO.	SIZE (IN.)
DE4X1C	¾	RIS100T	1
DF4X1C	1	RIS125T	1¼
DG4X1C	1¼	RIS150T	1½
DH4X1C	1½	RIS200T	2
DJ4X1C	2		
DL4X1C	3		

NOTE: HDPE innerduct will not meet code

Specifying and installing UL Listed innerducts with the anticipation of future upgrades provides the building owner with a low-cost solution for the removal of abandoned cables.