HAND MICROPHONES

MICROPHONE HEADS

GOOSENECK MICROPHONES

HANDS-FREE MICROPHONES

SPEAKER MICROPHONES

HANDSETS & CRADLES

HEADSETS

DESKTOP SYSTEMS

LOUDSPEAKER

PUSH-TO-TALK-BUTTONS

ACCESSORIES

SYSTEMS

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ODUKTKATALOG product catalogue

Dynamic hand microphone with one button

Article-No.: **2204-005-000-51**



Product:

Characteristics

- Dynamic microphone capsule
- Rugged plastic housing
- Durable PEIGUM® spiral cable
- Easy to operate push to talk button

Options

- Customized plugs and cables
- Microphone preamplifier

Application range

Radio and PA systems in mobile applications

Accessories

- HV7 mount
- HV13 mount
- HV21 mount

Scope of delivery

- Hand microphone with PEIGUM® spiral cable
- HV7 mount

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 117 mm, Width 57 mm, Depth 29 mm
Weight:	160 g (5.6 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button, red
display elements:	
Storage temperature:	-40 °C to +70 °C (-40 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Frequency range:	180 Hz to 6 kHz at -10 dB
Sensitivity:	2 mV/Pa (-54 dBV/Pa ± 3 dB)
Impedance:	$300~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Omnidirectional

10.09.2010





Electret hand microphone with one button

Article-No.: **2204-011-000-51**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Rugged plastic housing
- Durable PEIGUM® spiral cable
- Easy to operate push to talk button

Options

- Level control
- Customized plugs and cables

Application range

 Radio and PA systems in mobile applications

Accessories

- HV7 mount
- HV13 mount
- HV21 mount

Scope of delivery

- Hand microphone with PEIGUM® spiral cable
- HV7 mount

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 117 mm, Width 57 mm, Depth 29 mm
Weight:	150 g (5.3 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button, red
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage:	1.5 V to 10 V
Frequency range:	100 Hz to 14 kHz at -10 dB
Sensitivity:	6 mV/Pa (-44 dBV/Pa \pm 3 dB) at 5 V/2 k Ω
Impedance:	1.6 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Dynamic hand microphone with one button

Article-No.: **2208-002-000-02**



Product:

Characteristics

- Dynamic microphone capsule
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contact

Options

- Splash protection for microphone capsule
- Protection against unintentional button presses
- Customized plugs and cables
- Special button colors or symbol
- Black matte housing

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- HV5 mount
- Rubber protective ring for microphone head
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, brushed chrome
Dimensions:	Length 142 mm, Head Ø 29 mm, Body Ø 24 mm
Weight:	210 g (7.4 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	150 Hz to 4 kHz at -10 dB
Sensitivity:	2 mV/Pa (-54 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Omnidirectional

10.09.2010





Dynamic hand microphone with two buttons

Article-No.: **2208-013-000-02**



Product:

Characteristics

- Dynamic microphone capsule
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contacts

Ontions

- Splash protection for microphone capsule
- Protection against unintentional button presses
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- HV5 mount
- Rubber protective ring for microphone head
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, brushed chrome
Dimensions:	Length 173 mm, Head Ø 29 mm, Body Ø 24 mm
Weight:	245 g (8.6 oz)
Connection:	6-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	2 Buttons, orange, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	150 Hz to 4 kHz at -10 dB
Sensitivity:	2 mV/Pa (-54 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Omnidirectional

10.09.2010





Waterproofed, dynamic hand microphone with one button

Article-No.: **2208-035-000-03**



Product:

Characteristics

- Waterproofed IP6K8
- Dynamic microphone capsule
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Protection against unintentional button presses
- Very long life switching contact

Options

- Microphone preamplifier V966, V967, V856 and V857
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio and PA systems for mobile and fixed applications in harsh environmental conditions

Accessories

- HV5 mount
- Rubber protective ring for microphone head

Scope of delivery

- Hand microphone with PEIGUM® spiral cable
- Rubber protective ring for microphone head

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 146 mm, Head Ø 33 mm, Body Ø 24 mm
Weight:	275 g (9.7 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 2.5 m,
	without connector
Operating and	1 Button, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	700 Hz to 4 kHz at -10 dB
Sensitivity:	4 mV/Pa (-48 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± 20 % at 1 kHz
Directivity:	Omnidirectional

10.09.2010





Waterproofed, dynamic hand microphone with three buttons

Article-No.: **2208-034-000-03**



Product:

Characteristics

- Waterproofed IP6K8
- Dynamic microphone capsule
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Protection against unintentional button presses
- Very long life switching contacts

Options

- Microphone preamplifier V966, V967, V856 and V857
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio and PA systems for mobile and fixed applications in harsh environmental conditions

Accessories

- HV5 mount
- Rubber protective ring for microphone head

Scope of delivery

- Hand microphone with PEIGUM® spiral cable
- Rubber protective ring for microphone head

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 177 mm, Head Ø 33 mm, Body Ø 24 mm
Weight:	330 g (11.6 oz)
Connection:	6-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 2.5 m,
	without connector
Operating and	3 Buttons, green, orange, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	700 Hz to 4 kHz at -10 dB
Sensitivity:	4 mV/Pa (-48 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± 20 % at 1 kHz
Directivity:	Omnidirectional

10.09.2010





Electret hand microphone with one button

Article-No.: **2960-001-000-03**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contact

Options

- Protection against unintentional button presses
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

- Radio and PA systems in mobile and fixed applications
- Specially designed for digital radios

Accessories

- HV5 mount
- Rubber protective ring for microphone head

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 142 mm, Head Ø 29 mm, Body Ø 24 mm
Weight:	190 g (6.7 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button, yellow
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage:	1.5 V to 10 V
Frequency range:	100 Hz to 8 kHz at -10 dB
Sensitivity:	24 mV/Pa (-32 dBV/Pa \pm 3 dB) at 3 V/2.2 k Ω
Impedance:	1.9 k Ω ± 20 % at 1 kHz/RL = 2.2 k Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Electret hand microphone with two buttons

Article-No.: **2960-005-000-03**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contacts

Options

- Protection against unintentional button presses
- Push-button switch
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

- Radio and PA systems in mobile and fixed applications
- Specially designed for digital radios

Accessories

- HV5 mount
- Rubber protective ring for microphone head

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 173 mm, Head Ø 29 mm, Body Ø 24 mm
Weight:	215 g (7.6 oz)
Connection:	6-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1,5 m,
	without connector
Operating and	2 Buttons, yellow, blue
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage:	1.5 V to 10 V
Frequency range:	100 Hz to 8 kHz at -10 dB
Sensitivity:	24 mV/Pa (-32 dBV/Pa \pm 3 dB) at 3 V/2.2 k Ω
Impedance:	$1.9 \text{ k}\Omega \pm 20 \%$ at $1 \text{ kHz/RL} = 2.2 \text{ k}\Omega$
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Dynamic hand microphone with one button

Article-No.: **2102-017-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling for close talking
- Rubber protective ring for microphone head
- Durable PEIGUM® spiral cable
- Very long life switching contact
- Protection against unintentional button presses

Options

- Customized plugs and cables
- Special button colors or symbols
- Black matte housing
- Microphone preamplifier V966, V967, V856 and V857

Application range

 Close talking in air traffic control and control centers

Accessories

- HV5 mount
- Windscreen WS16

Scope of delivery

- Hand microphone with PEIGUM® spiral cable
- Rubber protective ring for microphone head

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 180 mm, Head Ø 29 mm, Body Ø 24 mm
Weight:	272 g (9.6 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 2 m,
	without connector
Operating and	1 Button, orange
display elements:	
Storage temperature:	-25 °C to +70 °C (-13 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 8 kHz at -10 dB
Sensitivity:	1.5 mV/Pa (-56 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± 20 % at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Dynamic hand microphone with one button

Article-No.: **2109-002-000-02**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contact

Options

- Protection against unintentional button presses
- Level control
- Push-button switch
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio systems in mobile and fixed applications

Accessories

- HV5 mount
- Rubber protective ring for microphone head
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, brushed chrome
Dimensions:	Length 142 mm, Head Ø 29 mm, Body Ø 24 mm
Weight:	210 g (7.4 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 6 kHz at -10 dB
Sensitivity:	2 mV/Pa (-54 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

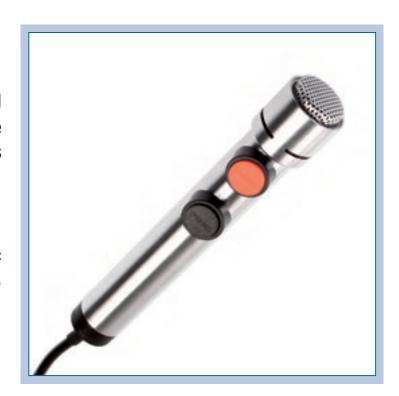
10.09.2010





Dynamic hand microphone with two buttons

Article-No.: **2109-041-000-02**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contacts

Options

- Protection against unintentional button presses
- Level control
- Push-button switch
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio systems in mobile and fixed applications

Accessories

- HV5 mount
- Rubber protective ring for microphone head
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, brushed chrome
Dimensions:	Length 173 mm, Head Ø 29 mm, Body Ø 24 mm
Weight:	245 g (8.6 oz)
Connection:	6-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	2 Buttons, orange, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 6 kHz at -10 dB
Sensitivity:	2 mV/Pa (-54 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Dynamic hand microphone with three buttons

Article-No.: **2109-052-000-02**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contacts

Options

- Protection against unintentional button presses
- Level control
- Push-button switch
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio systems in mobile and fixed applications

Accessories

- HV5 mount
- Rubber protective ring for microphone head
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, brushed chrome
Dimensions:	Length 173 mm, Head Ø 29 mm, Body Ø 24 mm
Weight:	245 g (8.6 oz)
Connection:	6-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	3 Buttons, black, orange, green
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 6 kHz at -10 dB
Sensitivity:	2 mV/Pa (-54 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± 20 % at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Dynamic hand microphone with one button

Article-No.: **2113-001-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contact

Options

- Protection against unintentional button presses
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- HV5 mount
- Windscreen WS16
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 178 mm, Ø 24 mm
Weight:	215 g (7.6 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± 20 % at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -20 dB)

10.09.2010





Dynamic hand microphone with two buttons

Article-No.: **2113-004-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contacts

Options

- Protection against unintentional button presses
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- HV5 mount
- Windscreen WS16
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 178 mm, Ø 24 mm
Weight:	230 g (8.1 oz)
Connection:	6-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	2 Buttons, orange, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -20 dB)

10.09.2010





Dynamic hand microphone with one button and volume control

Article-No.: **2113-008-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Volume control
- Rugged chromed housing
- Durable PEIGUM® spiral cable
- Very long life switching contact

Options

- Protection against unintentional button presses
- Push-button switch
- Customized plugs and cables
- Special button colors or symbols
- Black matte housing

Application range

 Radio and PA systems in mobile and stationary applications

Accessories

- HV5 mount
- Windscreen WS16
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

■ Hand microphone with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 178 mm, Ø 24 mm
Weight:	220 g (7.7 oz)
Connection:	4-wire halogen free PEIGUM® spiral cable,
	2 Wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button, black
display elements:	1 Volume control, black
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -20 dB)

10.09.2010





Dynamic microphone head

Article-No.: **2211-005-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Splash protection
- Rugged chromed housing
- Designed for gooseneck mounting

Options

- Microphone preamplifier
- Black matte housing
- Mounted on gooseneck

Application range

 Radio and PA systems in mobile outdoor applications

Accessories

Various goosenecks and mounting brackets

Scope of delivery

Microphone head with cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 75 mm, Ø 29 mm
Weight:	150 g (5.3 oz)
Connection:	2-wire cable shielded, 1.8 m,
	without connector
Storage temperature:	-25 °C to +70 °C (-13 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone		
Frequency range:	500 Hz to 4 kHz at -10 dB	
Sensitivity:	2 mV/Pa (-54 dBV/Pa ± 3 dB)	
Impedance:	200 Ω ± 20 % at 1 kHz	
Directivity:	Omnidirectional	

10.09.2010





Dynamic microphone head

Article-No.: **2106-001-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Chromed housing
- For front cover mounting on desktop systems
- Protected against metal dust (INTERCEPT) and splashed water
- Unsuitable for gooseneck mounting

Options

Black matte housing

Application range

PA systems in fixed applications

Accessories

■ HF2 or HF3 mount

Scope of delivery

Microphone head with cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 49 mm, Ø 29 mm
Weight:	65 g (2.3 oz)
Connection:	3 wires, Length 80 mm,
	without connector
Storage temperature:	-25 °C to +70 °C (-13 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 8 kHz at -10 dB
Sensitivity:	1.5 mV/Pa (-56 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Dynamic microphone head

Article-No.: **2111-001-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional high noise canceling
- Chromed housing
- Designed for gooseneck mounting

Options

- Microphone preamplifier
- Black matte housing
- Mounted on gooseneck

Application range

 Desktop microphones in indoor applications

Accessories

- Various goosenecks and mounting brackets
- Windscreen WS16
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

Microphone head with cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 80 mm, Ø 24 mm
Weight:	120 g (4.2 oz)
Connection:	2-wire cable shielded, 1.8 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz: 180° -20 dB)

10.09.2010





Dynamic microphone head

Article-No.: **2112-001-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Chromed housing
- Designed for gooseneck mounting

Options

- Microphone preamplifier
- Black matte housing
- Mounted on gooseneck

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- Various goosenecks and mounting brackets
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

Microphone head with cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 73.5 mm, Ø 29 mm
Weight:	140 g (4.9 oz)
Connection:	2-wire cable shielded, 1.8 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	50 Hz to 14 kHz at -10 dB
Sensitivity:	1.5 mV/Pa (-56 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Dynamic microphone head

Article-No.: **2117-001-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional high noise canceling
- Chromed housing
- Designed for gooseneck mounting

Options

- Black matte housing
- Mounted on gooseneck

Application range

Desktop microphones in indoor applications

Accessories

- Various goosenecks and mounting brackets
- Windscreen WS16

Scope of delivery

Microphone head with cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 50 mm, Ø 24 mm
Weight:	70 g (2.4 oz)
Connection:	2-wire cable shielded, 1.8 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	200 Ω ± 20 % at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -20 dB)

10.09.2010





Dynamic microphone head

Article-No.: **2114-001-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Chromed housing
- Designed for gooseneck mounting

Options

- Microphone preamplifier
- Black matte housing
- Mounted on gooseneck

Application range

- Radio and PA systems in mobile applications
- Designed for use in large vehicles

Accessories

- Various goosenecks and mounting brackets
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

Microphone head with cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 85 mm, Ø 29 mm
Weight:	160 g (5.6 oz)
Connection:	2-wire cable shielded, 1.8 m,
	without connector
Storage temperature:	-25 °C to +70 °C (-13 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 8 kHz at -10 dB
Sensitivity:	1,5 mV/Pa (-56 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz: 180° -15 dB)

10.09.2010





Dynamic microphone head

Article-No.: **2115-001-000-03**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Rugged chromed housing
- Designed for gooseneck mounting
- Protected against metal dust (INTERCEPT) and splashed water

Options

- Various microphone preamplifiers
- Black matte housing
- Mounted on gooseneck

Application range

- Radio and PA systems in mobile applications
- Designed for use in railway and industrial systems

Accessories

- Various goosenecks and mounting brackets
- Microphone preamplifier V966, V967, V856 and V857

Scope of delivery

Microphone head with cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 85 mm, Ø 29 mm
Weight:	160 g (5.6 oz)
Connection:	2-wire cable shielded, 1.8 m,
	without connector
Storage temperature:	-25 °C to +70 °C (-13 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 8 kHz at -10 dB
Sensitivity:	1.5 mV/Pa (-56 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± 20 % at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Dynamic twin microphone head

Article-No.: **2116-001-000-03**



Product:

Characteristics

- Two independent dynamic microphone capsules
- Unidirectional high noise canceling
- Chromed housing
- Designed for gooseneck mounting

Options

- Microphone preamplifier (max. 1 piece)
- Black matte housing
- Mounted on gooseneck

Application range

- Radio and PA systems in mobile applications
- Designed for use in large vehicles

Accessories

Various goosenecks and mounting brackets

Scope of delivery

Microphone head with cable

Technical Data:

General	
Housing:	Brass, sand blasted chrome (matte)
Dimensions:	Length 124 mm, Ø 24 mm
Weight:	160 g (5.6 oz)
Connection:	2x 2-wire cable shielded, per 1.5 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone 1	
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -20 dB)

Microphone 2	
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -20 dB)

10.09.2010





03 GOOSENECK MICROPHONES

ME14

Electret gooseneck microphone

Article-No.: **2918-001-000-51**



Product:

Characteristics

- Electret microphone capsule
- Full metal housing with gooseneck
- Covered with heat shrink tube
- Protected against dust and splashed water (IP54)

Options

- Customized plugs and cables
- Various lengths of goosenecks
- Microphone preamplifier

Application range

 Radio and PA systems in mobile outdoor applications e.g. vehicles and motorbikes

Accessories

Various mounting brackets for M10 screw thread

Scope of delivery

■ Gooseneck microphone with cable

Technical Data:

General	
Housing:	Brass, black - heat shrink tube
Gooseneck:	Steel coil with external brass winding,
	black - heat shrink tube
Dimensions:	Length 234 mm, Head Ø 16 mm,
	Gooseneck Ø 10 mm
Weight:	130 g (4.6 oz)
Connection:	1-wire cable, shielded, 2.8 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	50 Hz to 9 kHz at -10 dB
Sensitivity:	14 mV/Pa (-37 dBV/Pa \pm 3 dB) at 5 V/2 k Ω
Impedance:	$1.5 \text{ k}\Omega \pm 20 \%$ at $1 \text{ kHz/RL} = 2 \text{ k}\Omega$
Directivity:	Omnidirectional

10.09.2010





03 GOOSENECK MICROPHONES

ME110 SH

Electret gooseneck microphone with push button

Article-No.: **2960-003-000-05**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Rugged housing with gooseneck
- Very long life switching contact

Options

- Protection against unintentional button presses
- Push-button switch
- Customized plugs and cables
- Special button colors or symbols
- Various lengths of goosenecks

Application range

- Radio and PA systems in mobile and fixed applications
- Designed for digital radios

Accessories

- Various mounting brackets for M10 screw thread
- Rubber protective ring for microphone head

Scope of delivery

■ Gooseneck microphone with cable

Technical Data:

General	
Housing:	Brass, matte black plasma coated
Gooseneck:	Steel coil with external brass winding, black
Dimensions:	Length 650 mm, Head Ø 29 mm, Body Ø 24 mm Gooseneck Ø 15 mm
Weight:	625 g (22 oz)
Connection:	4-wires cable, 2 Wires shielded, 4 m, without connector
Operating and display elements:	1 Button, yellow
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	100 Hz to 8 kHz at -10 dB
Sensitivity:	24 mV/Pa (-32 dBV/Pa \pm 3 dB) at 3 V/2.2 k Ω
Impedance:	$1.9 \text{ k}\Omega$ ± 20% at 1 kHz/RL = $2.2 \text{ k}\Omega$
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010







Electret gooseneck microphone

Article-No.: **2910-006-000-51**



Product:

Characteristics

- Electret microphone capsule (High Level)
- Unidirectional noise canceling
- Solid plastic housing with gooseneck
- Covered with heat shrink tube
- Protected against dust and splashed water (IP54)

Options

- Customized plugs and cables
- Various lengths of goosenecks
- Microphone sensitivity 6 mV (Low Level)

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- Various mounting brackets for M10 screw thread
- Windscreen WS18 or WS19

Scope of delivery

Gooseneck microphone with cable

Technical Data:

General	
Housing:	Plastic PE, black
Gooseneck:	Steel coil with external brass winding, black
Dimensions:	Length 215 mm, Head Ø 13 mm, Gooseneck Ø 8 mm
Weight:	100 g (3.5 oz)
Connection:	1-wire cable, shielded, 3.3 m, without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	100 Hz to 14 kHz at -10 dB
Sensitivity:	12 mV/Pa (-38 dBV/Pa \pm 3 dB) at 5 V/2 k Ω
Impedance:	1.6 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010







Electret gooseneck microphone

Article-No.: **2908-030-000-51**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Solid plastic housing with gooseneck
- Adjustable microphone preamplifier

Options

- Customized plugs and cables
- Various lengths of goosenecks
- Ground free version (ME253) without microphone preamplifier

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- Various mounting brackets for M10 screw thread
- Windscreen WS18

Scope of delivery

- Gooseneck microphone with cable
- Windscreen

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Gooseneck:	Steel coil with external brass winding, black
Dimensions:	Length 235 mm, Head Ø 12 mm, Gooseneck Ø 8 mm
Weight:	95 g (3.3 oz)
Connection:	1-wire cable, shielded, 2.5 m, without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	9 V to 13.5 V
Frequency range:	100 Hz to 10 kHz at -10 dB
Sensitivity:	700 mV/Pa (-3 dBV/Pa \pm 3 dB) at 9.5 V/1 k Ω
Impedance:	$1 \text{ k}\Omega \pm 20 \%$ at $1 \text{ kHz/RL} = 1 \text{ k}\Omega$
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010







Electret gooseneck microphone

Article-No.: **2906-002-000-51**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Solid plastic housing with gooseneck
- Integrated windscreen

Options

- Customized plugs and cables
- Various lengths of goosenecks

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- Various mounting brackets for M10 screw thread
- Windscreen WS18

Scope of delivery

Gooseneck microphone with cable

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Gooseneck:	Steel coil with external brass winding, black
Dimensions:	Length 233 mm, Head Ø 12 mm, Gooseneck Ø 8 mm
Weight:	85 g (3.0 oz)
Connection:	1-wire cable, shielded, 1.8 m, without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

	Microphone	
	Operating voltage (DC):	1.5 V to 9 V
	Frequency range:	75 Hz to 18 kHz at -10 dB
	Sensitivity:	8 mV/Pa (-42 dBV/Pa \pm 3 dB) at 5 V/2 k Ω
	Impedance:	1.6 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
	Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010







Electret gooseneck microphone with LED ring

Article-No.: **2904-007-000-51**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Solid plastic housing with gooseneck
- Integrated windscreen
- LED ring

Options

- Customized plugs and cables
- Various lengths of goosenecks

Application range

 Radio and PA systems in fixed applications

Accessories

- Various mounting brackets for M10 screw thread
- Windscreen WS17

Scope of delivery

Gooseneck microphone with cable

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Gooseneck:	Steel coil with external brass winding, black
Dimensions:	Length 335 mm, Head Ø 15 mm, Gooseneck Ø 10 mm
Weight:	110 g (3.9 oz)
Connection:	3-wires cable, shielded, 0.5 m, without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 9 V
Frequency range:	100 Hz to 12 kHz at -10 dB
Sensitivity:	8 mV/Pa (-42 dBV/Pa \pm 3 dB) at 5 V/2 k Ω
Impedance:	1.6 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

LED	
Nominal current:	20 mA
Illuminance:	140 mcd
Series resistor:	Must be connected externally

10.09.2010





03 GOOSENECK MICROPHONES

ME353

Electret gooseneck microphone

Article-No.: **2942-004-000-51**



Product:

Characteristics

- Electret microphone capsule
- Bidirectional mocrophone for close talking
- Solid plastic housing with gooseneck
- Gooseneck wrapped with heat shrink tube

Options

- Customized plugs and cables
- Various lengths of goosenecks

Application range

Radio and PA systems in fixed applications

Accessories

- Various mounting brackets for M10 screw thread
- Windscreen WS17

Scope of delivery

- Gooseneck microphone with cable
- Windscreen WS17

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Gooseneck:	Steel coil with external brass winding,
	black - heat shrink tube
Dimensions:	Length 445 mm, Head Ø 13 mm,
	Gooseneck Ø 6 mm
Weight:	70 g (2.4 oz)
Connection:	1-wire cable, shielded, 1 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	100 Hz to 18 kHz at -10 dB
Sensitivity:	5 mV/Pa (-46 dBV/Pa \pm 3 dB) at 5 V/2 k Ω
Impedance:	1.6 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
Directivity:	Bidirectional (at 1 kHz; ≥ -14 dB at 50 cm)

10.09.2010





DYNAMIC GOOSNECK MICROPHONE - TM110

TM110 SH

Dynamic gooseneck microphone with one button

Article-No.: **2109-240-000-05**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional noise canceling
- Rugged housing with gooseneck
- Very long life switching contact

Options

- Protection against unintentional button presses
- Microphone preamplifier
- Customized plugs and cables
- Special button colors or symbols
- Various lengths of goosenecks

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

- Various mounting brackets for M10 screw thread
- Rubber protective ring for microphone head

Scope of delivery

Gooseneck microphone with cable

Technical Data:

General	
Housing:	Brass, matte black plasma coated
Gooseneck:	Steel coil with external brass winding, black
Dimensions:	Length 652 mm, Head Ø 29 mm, Body Ø 24 mm Gooseneck Ø 15 mm
Weight:	640 g (22.6 oz)
Connection:	4-wires cable, 2 Wires shielded, 4 m, without connector
Operating and display elements:	1 Button, orange
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 6 kHz at -10 dB
Sensitivity:	2 mV/Pa (-54 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





TM880 SH

Dynamic gooseneck microphone with one button

Article-No.: **2118-001-000-05**



Product:

Characteristics

- Dynamic microphone capsule
- Unidirectional high noise canceling
- Rugged housing with gooseneck
- Very long life switching contact
- Protected against metal dust (INTERCEPT) and splashed water

Options

- Customized plugs and cables
- Special button colors or symbols
- Various lengths of goosenecks
- Microphone preamplifier

Application range

- Radio and PA systems in mobile applications
- Designed for use on railway and industrial systems

Accessories

Various mounting brackets for M14 screw thread

Scope of delivery

Gooseneck microphone with cable

Technical Data:

General	
Housing:	Brass, matte black plasma coated
Gooseneck:	Steel coil with external brass winding, black
Dimensions:	Length 650 mm, Head Ø 29 mm, Body Ø 24 mm Gooseneck Ø 18 mm
Weight:	875 g (30.8 oz)
Connection:	4-wires cable, 2 Wires shielded, 4 m, without connector
Operating and display elements:	1 Button, black
Storage temperature:	-25 °C to +70 °C (-13 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 8 kHz at -10 dB
Sensitivity:	1.5 mV/Pa (-56 dBV/Pa ± 3 dB)
Impedance:	200 Ω ± 20 % at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





EM7

Electret surface mount microphone

Article-No.: **6801-000-000-51**



Product:

Characteristics

- Electret microphone capsule
- Solid plastic housing
- Microphone preamplifier

Options

- Customized plugs and cables
- Dynamic microphone capsule
- Passive version

Application range

 For area monitoring and recording systems e.g. air traffic control

Scope of delivery

- Microphone with cable
- Mounting hook-and-loop tape

Technical Data:

General	
Housing:	Plastic PPO, black
Dimensions:	Height 24 mm, Ø 48 mm
Weight:	220 g (7.7 oz)
Connection:	2-wires cable, shielded, 20 m,
	without connector
Storage temperature:	-40 °C to +80 °C (-40 °F to +176 °F)
Operation temperature:	-30 °C to +70 °C (-22 °F to +158 °F)

Microphone	
Operating voltage (DC):	8 V
Frequency range:	120 Hz to 9 kHz at -10 dB
Sensitivity:	500 mV/Pa (-6 dBV/Pa \pm 3 dB) at 8 V/680 Ω
Impedance:	100 Ω ± 20 % at 1 kHz/RL = 680 Ω
Directivity:	Omnidirectional

10.09.2010





EM14

Electret built-in microphone

Article-No.: **2801-018-001-51**



Product:

Characteristics

- Electret microphone capsule
- Full metal housing, rubber coated
- Protected against dust and splashed water (IP54)

Options

Customized plugs and cables

Application range

Intercommunication systems in outdoor applications

Scope of delivery

Microphone with cable

Technical Data:

General	
Housing:	Brass, black coated
Dimensions:	Height 35 mm, Ø 22 mm
Weight:	60 g (2.1 oz)
Connection:	1-wire cable, shielded, 3 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	50 Hz to 9 kHz at -10 dB
Sensitivity:	14 mV/Pa (-37 dBV/Pa \pm 3 dB) at 5 V/2 $k\Omega$
Impedance:	1.5 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
Directivity:	Omnidirectional

10.09.2010





Electret surface mount microphone

Article-No.: **2909-003-000-51**



Product:

Characteristics

- Electret microphone capsule (High Level)
- Unidirectional noise canceling
- Solid plastic housing

Options

- Customized plugs and cables
- Microphone sensitivity 6 mV (Low Level)

Application range

Hands-free systems in vehicles

Accessories

■ Windscreen WS19

Scope of delivery

- Surface mount microphone with cable
- HV20 mount with hook-and-loop tape
- Windscreen WS19

Technical Data:

General	
Housing:	Plastic PE, black
Dimensions:	Height 30 mm, Width 17 mm, Depth 32 mm
Weight:	40 g (1.4 oz)
Connection:	1-wire cable, shielded, 3.5 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	100 Hz to 14 kHz at -10 dB
Sensitivity:	12 mV/Pa (-44 dBV/Pa \pm 3 dB) at 5 V/2 $k\Omega$
Impedance:	1.6 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Electret surface mount microphone

Article-No.: **2907-024-000-51**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional high noise canceling
- Solid plastic housing
- Adjustable microphone preamplifier

Ontions

Customized plugs and cables

Application range

Hands-free systems

Accessories

■ Windscreen WS19

Scope of delivery

- Surface mount microphone with cable
- HV2 mount with hook-and-loop tape

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 40 mm, Width 22 mm, Depth 50 mm
Weight:	45 g (1.6 oz)
Connection:	1-wire cable, shielded, 3.5 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	9 V to 13.5 V
Frequency range:	100 Hz to 10 kHz at -10 dB
Sensitivity:	700 mV/Pa (-3 dBV/Pa \pm 3 dB) at 9.5 V/1 $k\Omega$
Impedance:	$< 1 k\Omega \pm 20 \%$ at $1 kHz/RL = 1 k\Omega$
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Electret surface mount microphone

Article-No.: **2905-003-000-51**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional high noise canceling
- Solid plastic housing
- Integrated windscreen

Options

Customized plugs and cables

Application range

■ Hands-free systems

Accessories

■ Windscreen WS19

Scope of delivery

- Surface mount microphone with cable
- HV3 mount with hook-and-loop tape (twistable)

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 45 mm, Width 22 mm, Depth 55 mm
Weight:	35 g (1.2 oz)
Connection:	1-wire cable, shielded, 2 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 9 V
Frequency range:	100 Hz to 12 kHz at -10 dB
Sensitivity:	8 mV/Pa (-42 dBV/Pa \pm 3 dB) at 5 V/2 k Ω
Impedance:	1.6 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Electret surface mount microphone

Article-No.: **2921-034-010-51**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Small discrete design
- Microphone preamplifier

Options

- Customized plugs and cables
- Passive version

Application range

Hands-free systems

Scope of delivery

Surface mount microphone with cable

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 12.3 mm, Width 21.1 mm, Depth 43 mm
Weight:	30 g (1.0 oz)
Connection:	1-wire cable, shielded, 2.3 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	8 V
Frequency range:	80 Hz to 10 kHz at -10 dB
Sensitivity:	700 mV/Pa (-3 dBV/Pa \pm 3 dB) at 8 V/680 Ω
Impedance:	$<$ 100 Ω ± 20 % at 1 kHz/RL = 680 Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Electret snap-in microphone

Article-No.: **2923-020-000-51**



Product:

Characteristics

- Electret microphone capsule
- Unidirectional noise canceling
- Solid plastic housing
- Microphone preamplifier

Options

- Customized plugs and cables
- Passive version

Application range

 Radio and PA systems in mobile and fixed applications

Scope of delivery

- Surface mount microphone with cable
- Gasket

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 12.7 mm, Width 31.5 mm, Depth 21 mm
Weight:	55 g (1.9 oz)
Connection:	1-wire cable, shielded, 3 m,
	without connector
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	5 V
Frequency range:	100 Hz to 8 kHz at -10 dB
Sensitivity:	180 mV/Pa (-15 dBV/Pa \pm 3 dB) at 5 V/680 Ω
Impedance:	$<$ 1 k Ω ± 20 % at 1 kHz/RL = 680 Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

10.09.2010





Electret speaker microphone with one button

Article-No.: **2319-031-001-51**



Product:

Characteristics

- Electret microphone capsule
- Solid plastic housing
- Durable PEIGUM® spiral cable
- Protection against splashed water
- 360° rotating Clip
- 3.5 mm connection for earphones

Options

- Customized plugs and cables
- Microphone preamplifier
- HV7 mount for vehicles
- LED

Application range

Portable radios

Accessories

- D-Loop earphone with phone plug OBH2
- Acoustical tube earphone with phone plug SSH1

Scope of delivery

 Speaker microphone with Clip and PEIGUM® spiral cable

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 84 mm, Width 59 mm, Depth 24 mm
Weight:	140 g (4.9 oz)
Connection:	5-wires halogen free PEIGUM® spiral cable,
	1 wire shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	3 V to 10 V
Frequency range:	150 Hz to 10 kHz at -10 dB
Sensitivity:	11 mV/Pa (-39 dBV/Pa ± 3 dB)
Impedance:	1.2 kΩ ± 20 % at 1 kHz
Directivity:	Omnidirectional

Speaker	
Frequency range:	450 Hz to 7 kHz at -10 dB
Effective sound pressure:	77 dB/1 W/1 m ± 3 dB
Impedance:	16 Ω ± 20 % at 1 kHz
Maximum output:	1 W

10.09.2010





Electret speaker microphone with three buttons

Article-No.: **2319-030-001-51**



Product:

Characteristics

- Electret microphone capsule
- Solid plastic housing
- Durable PEIGUM® spiral cable
- Protection against splashed water
- 360° rotating Clip
- 3,5 mm connection for earphones

Options

- Customized plugs and cables
- Microphone preamplifier
- HV7 mount for vehicles
- Volume control
- LED

Application range

Portable radios

Accessories

- D-Loop earphone with phone plug OBH2
- Acoustical tube earphone with phone plug SSH1

Scope of delivery

 Speaker microphone with Clip and PEIGUM® spiral cable

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 84 mm, Width 59 mm, Depth 24 mm
Weight:	145 g (5.1 oz)
Connection:	7-wires halogen free PEIGUM® spiral cable,
	1 wire shielded, Draw length max. 1.5 m,
	without connector
Operating and	3 Buttons
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	150 Hz to 10 kHz at -10 dB
Sensitivity:	11 mV/Pa (-39 dBV/Pa \pm 3 dB) at 5 V/2.2 k Ω
Impedance:	$1.2 \text{ k}\Omega \pm 20 \%$ at $1 \text{ kHz/RL} = 2.2 \text{ k}\Omega$
Directivity:	Omnidirectional

Speaker	
Frequency range:	450 Hz to 7 kHz at -10 dB
Effective sound pressure:	77 dB/1 W/1 m ± 3 dB
Impedance:	16 Ω ± 20 % at 1 kHz
Maximum output:	1 W

10.09.2010





Electret speaker microphone with two buttons and LED

Article-No.: 2319-049-001-51



Product:

Characteristics

- Electret microphone capsule
- Solid plastic housing
- Durable PEIGUM® spiral cable
- Protection against splashed water
- Bracket for mounting in vehicles
- LED (red)

Options

- Customized plugs and cables
- Microphone preamplifier
- 360° rotating Clip
- Earphone jack

Application range

Radio and PA systems in mobile and fixed applications

Accessories

- HV7 mount
- HV13 mount
- HV21 mount

Scope of delivery

- Speaker microphone with Clip and PEIGUM® spiral cable
- HV7 mount

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 84 mm, Width 59 mm, Depth 24 mm
Weight:	130 g (4.6 oz)
Connection:	9-wires halogen free PEIGUM® spiral cable,
	1 wire shielded, Draw length max. 1.5 m,
	without connector
Operating and	2 Buttons, 1 LED
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	12 V
Frequency range:	150 Hz to 10 kHz at -10 dB
Sensitivity:	380 mV/Pa (-8 dBV/Pa ± 3 dB)
Impedance:	< 1 kΩ ± 20 % at 1 kHz
Directivity:	Omnidirectional

Speaker	
Frequency range:	450 Hz to 7 kHz at -10 dB
Effective sound pressure:	77 dB/1 W/1 m ± 3 dB
Impedance:	16 Ω ± 20 % at 1 kHz
Maximum output:	1 W

10.09.2010





Dynamic speaker microphone with three buttons, volume switch and two LEDs

Article-No.: **2307-009-001-51**



Product:

Characteristics

- Dynamic microphone capsule
- Solid plastic housing
- Very long life switching contacts
- Bracket for mounting in vehicles

Options

- Customized plugs and cables
- Special button symbols

Application range

Radio and PA systems in mobile applications

Accessories

- HV7 mount
- HV13 mount
- HV21 mount

Scope of delivery

- Speaker microphone with spiral cable
- HV7 mount

Technical Data:

General	
Housing:	Plastic PPO, black
Dimensions:	Height 102.5 mm, Width 50 mm, Depth 26.5 mm
Weight:	250 g (8.8 oz)
Connection:	11-wires spiral cable, 2 wires shielded,
	Draw length max. 1.5 m,
	without connector
Operating and	3 Buttons, 1 volume switch, 2 LEDs
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone		
Frequency range:	300 Hz to 6 kHz at -10 dB	
Sensitivity:	1.8 mV/Pa (-55 dBV/Pa ± 3 dB)	
Impedance:	$400~\Omega$ ± 20 % at 1 kHz	
Directivity:	Omnidirectional	

Speaker	
Frequency range:	700 Hz to 6 kHz at -10 dB
Effective sound pressure:	86 dB/1 W/1 m ± 3 dB
Impedance:	4Ω ± 20 % at 1 kHz
Maximum output:	2 W

10.09.2010





Dynamic speaker microphone with one button

Article-No.: **2308-007-001-51**



Product:

Characteristics

- Dynamic microphone capsule
- Solid plastic housing
- Durable PEIGUM® spiral cable
- Very long life switching contacts
- Bracket for mounting in vehicles

Options

- Customized plugs and cables
- Special button symbols

Application range

Radio and PA systems in mobile applications

Accessories

- HV7 mount
- HV13 mount
- HV21 mount

Scope of delivery

- Speaker microphone with spiral cable
- HV7 mount

Technical Data:

General	
Housing:	Plastic PPO, black
Dimensions:	Height 102.5 mm, Width 50 mm, Depth 26.5 mm
Weight:	180 g (6.3 oz)
Connection:	6-wires halogen free PEIGUM® spiral cable,
	2 wires shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 Button
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	300 Hz to 6 kHz at -10 dB
Sensitivity:	1.8 mV/Pa (-55 dBV/Pa ± 3 dB)
Impedance:	$400~\Omega$ ± 20 % at 1 kHz
Directivity:	Omnidirectional

Speaker	
Frequency range:	700 Hz to 6 kHz at -10 dB
Effective sound pressure:	86 dB/1 W/1 m ± 3 dB
Impedance:	$4~\Omega$ ± 20 % at 1 kHz
Maximum output:	2 W

10.09.2010





Dynamic speaker microphone with three buttons and volume control

Article-No.: **2310-001-001-51**



Product:

Characteristics

- Reversible converter (Microphone = Loudspeaker)
- Solid plastic housing
- Very long life switching contacts
- Mount for easy handling

Options

- Customized plugs and cables
- Special button symbols

Application range

 Radio and PA systems in mobile public safety communications

Accessories

- HV7 mount
- HV13 mount
- HV21 mount

Scope of delivery

- Speaker microphone with spiral cable
- HV7 mount

Technical Data:

General	
Housing:	Plastic PPO, black
Dimensions:	Height 104.5 mm, Width 52 mm, Depth 33 mm
Weight:	270 g (9.5 oz)
Connection:	8-wires spiral cable, 2 wires shielded,
	Draw length max. 1.5 m,
	without connector
Operating and	3 Buttons, 1 Volume control
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	200 Hz to 7.5 kHz at -10 dB
Sensitivity:	3 mV/Pa (-50 dBV/Pa ± 3 dB)
Impedance:	150 Ω ± 20 % at 1 kHz
Directivity:	Omnidirectional

Speaker	
Frequency range:	300 Hz to 8 kHz at -10 dB
Effective sound pressure:	66 dB/0.05 W/1 m ± 3 dB
Impedance:	150 Ω ± 20 % at 1 kHz
Maximum output:	100 mW
maximum output:	100 mW

10.09.2010





Dynamic speaker microphone with three buttons and volume control

Article-No.: **2310-010-000-51**



Product:

Characteristics

- Low noise microphone capsule
- Solid plastic housing
- Durable PEIGUM® spiral cable
- Very long life switching contacts
- Mount for easy handling
- Microphone preamplifier

Options

- Customized plugs and cables
- Special button symbols

Application range

 Radio and PA systems in mobile public safety (German public safety communication system "Funksystem 2000")

Accessories

- HV7 mount
- HV13 mount
- HV21 mount

Scope of delivery

- Speaker microphone with PEIGUM® spiral cable
- HV7 mount

Technical Data:

General	
Housing:	Plastic PPO, black
Dimensions:	Height 104.5 mm, Width 52 mm, Depth 33 mm
Weight:	210 g (7.4 oz)
Connection:	7-wires halogen free PEIGUM® spiral cable,
	shielded, Draw length max. 1.8 m,
	Binder 910 connector
Operating and	3 Buttons, 1 Volume control
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	10 V
Frequency range:	400 Hz to 12 kHz at -10 dB
Sensitivity:	3 to 10 mV/Pa (-50 to -40 dBV/Pa ± 3 dB)
Impedance:	200 Ω ± 20 % at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

Speaker	
Frequency range:	300 Hz to 8 kHz at -10 dB
Effective sound pressure:	66 dB/0.05 W/1 m ± 3 dB
Impedance:	150 Ω ± 20 % at 1 kHz
Maximum output:	100 mW

10.09.2010





SPEAKER MICROPHONE - ML90

ML90

Electret spaker microphone with three buttons

Article-No.: **2313-031-000-51**



Product:

Characteristics

- Solid plastic housing
- Durable PEIGUM® spiral cable
- Protection against splashed water
- Top-mounted speaker port
- 360° rotating Clip
- 3.5 mm connection for earphones

Options

- Customized plugs and cables
- Special button symbol printing on housing

Application range

Portable radios

Accessories

- Clip
- Earphone

Scope of delivery

 Speaker microphone with clip and PEIGUM® spiral cable

Technical Data:

General	
Housing:	Plastic PPO, black
Dimensions:	Height 92.5 mm, Width 69 mm, Depth 32.5 mm
Weight:	210 g (7.4 oz)
Connection:	11-wires halogen free PEIGUM® spiral cable,
	shielded, Draw length max. 1.8 m,
	without connector
Operating and	3 Buttons
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	3 V to 16 V
Frequency range:	100 Hz to 5 kHz at -10 dB
Sensitivity:	100 mV/Pa (-20 dBV/Pa ± 3 dB)
Impedance:	47 Ω ± 20 % at 1 kHz
Directivity:	Omnidirectional

Speaker	
Frequency range:	500 Hz to 5 kHz at -10 dB
Effective sound pressure:	75 dB/1 W/1 m ± 3 dB
Impedance:	16 Ω ± 20 % at 1 kHz
Maximum output:	2 W

10.09.2010





Handset with release button

Article-No.: **2506-175-000-51**



Product:

Characteristics

- Dynamic ear capsule
- Electret microphone capsule
- Solid plastic housing
- Durable PUR spiral cable
- Button for hookswitch

Options

- Customized plugs and cables
- Flame resistant plastic housing
- Amplifier
- Push-to-talk button and force release mechanism

Application Range

- GSM-Applications
- Installations with limited space

Accessories

A8 cradle with screws

Scope of Delivery

- Handset with PUR spiral cable
- A8 cradle with screws

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions with cradle:	Height 35 mm, Width 50 mm, Depth 160 mm
Weight:	190 g (6.7 oz)
Connection:	5-wires halogen free PUR spiral cable,
	2 wires shielded, Draw length max. 1.5 m,
	plug RJ50 10 cond.
Operating and	1 release button, black
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC): 1.5 V to 10 V
Frequency range:	100 Hz to 10 kHz at -10 dB
Sensitivity (in LRGP):	2.5 mV/Pa (-52 dBV/Pa \pm 3 dB) at 3 V/2 $k\Omega$
Impedance:	$1.4 \text{ k}\Omega \pm 20 \%$ at $1 \text{ kHz/RL} = 2 \text{ k}\Omega$
Directivity:	Omnidirectional

Earpiece	
Frequency range:	400 Hz to 4 kHz at -10 dB
Sensitivity:	20 dBPa/V ± 3 dB (IEC 3.2 Low-Leak coupler)
Impedance:	110 Ω ± 20 % at 1 kHz
Maximum output:	10 mW

10.09.2010





Handset with one push-to-talk button ready for connection on FuG 8/9

Article-No.: **2506-186-001-51**



Product:

Characteristics

- Dynamic ear capsule
- Electret microphone capsule
- Solid plastic housing
- Durable PUR spiral cable

Options

 Conductor RJ45 plug and adapter cable for terminal strip FuG 8/9

Application Range

- Analog public safety radio systems
- Installations with limited space

Accessories

A8 cradle with screws

Scope of Delivery

- Handset with PUR spiral cable and plug U127/U
- A8 cradle with screws

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions with cradle:	Height 36.2 mm, Width 50 mm, Depth 160 mm
Weight:	190 g (6.7 oz)
Connection:	5-wires halogen free PUR spiral cable,
	2 wires shielded, Draw length max. 1.5 m,
	plug U127/U
Operating and	1 push-to-talk button, blue
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	12 V
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity (in LRGP):	4 mV/Pa (-48 dBV/Pa ± 3 dB)
Impedance:	200 Ω ± 20 % at 1 kHz
Directivity:	Omnidirectional

Earpiece	
Frequency range:	400 Hz to 4 kHz at -10 dB
Sensitivity:	17 dBPa/V ± 3 dB (IEC 3.2 Low-Leak coupler)
Impedance:	15 k Ω ± 20 % at 1 kHz
Max. input voltage:	500 mV

10.09.2010





Handset with thumb guard, one button and cradle

Article-No.: **2506-025-000-51**



Product:

Characteristics

- Dynamic ear and microphone capsules
- Large push-to-talk button
- Durable PEIGUM® spiral cable
- Cradle with locking mechanism for the handset with release button
- Automatic hook switch mechanism in the cradle
- Connection via screw-down terminal strip

Options

- Loudspeaker in the cradle
- Cradle with force release mechnism
- Flame resistant plastic housing
- Amplifier (built into in the A10 cradle)
- Electret microphone capsule

Application Range

 Radio and PA systems in mobile and fixed applications

Accessories

- Cradle loudspeaker 4 Ω
- Cradle loudspeaker 8 Ω

Scope of Delivery

 Handset with PEIGUM® spiral cable and cradle

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions with cradle:	Height 85 mm, Width 63 mm, Depth 213 mm
Weight:	395 g (13.9 oz)
Connection:	12 cond. terminal strip in the cradle,
	6-wires halogen free PEIGUM® spiral cable,
	2 wires shielded, Draw length max. 1.35 m
Operating and	1 button, orange
display elements:	release buttons, black
Storage temperature:	-30 °C to +70 °C (-13 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	200 Hz to 6 kHz at -10 dB
Sensitivity (in LRGP):	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Omnidirectional

Earpiece	
Frequency range:	300 Hz to 4 kHz at -10 dB
Sensitivity:	26 dBPa/V ± 3 dB (IEC 3.2 Low-Leak coupler)
Impedance:	$300~\Omega$ ± $20~\%$ at 1 kHz
Maximum output:	10 mW

10.09.2010





Handset with one button and cradle

Article-No.: **2506-035-000-51**



Product:

Characteristics

- Dynamic ear and microphone capsules
- Large push-to-talk button
- Durable PEIGUM® spiral cable
- Cradle with locking mechanism for the handset with release button
- Automatic hook switch mechanism in the cradle
- Connection via screw-down terminal strip

Options

- Loudspeaker in the cradle
- Cradle with force release mechnism
- Flame resistant plastic housing
- Amplifier (built into in the A10 cradle)
- Electret microphone capsule

Application Range

 Radio and PA systems in mobile and fixed applications

Accessories

- Cradle loudspeaker 4 Ω
- Cradle loudspeaker 8 Ω

Scope of Delivery

 Handset with PEIGUM® spiral cable and cradle

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions with cradle:	Height 85 mm, Width 63 mm, Depth 213 mm
Weight:	380 g (13.4 oz)
Connection:	12 cond. terminal strip in the cradle,
	6-wires halogen free PEIGUM® spiral cable,
	2 wires shielded, Draw length max. 1.35 m
Operating and	1 button, orange
display elements:	release buttons, black
Storage temperature:	-30 °C to +70 °C (-13 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Microphone	
Frequency range:	200 Hz to 6 kHz at -10 dB
Sensitivity (in LRGP):	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Omnidirectional

Earpiece	
Frequency range:	300 Hz to 4 kHz at -10 dB
Sensitivity:	26 dBPa/V ± 3 dB (IEC 3.2 Low-Leak coupler)
Impedance:	$300~\Omega$ ± $20~\%$ at 1 kHz
Maximum output:	10 mW

10.09.2010





Handset with one button

Article-No.: **2506-113-000-51**



Product:

Characteristics

- Unidirectional noise canceling electret microphone capsule
- Dynamic ear capsule
- Solid plastic housing
- Durable PEIGUM® spiral cable
- Automatic hook switch mechanism (A12 cradle only)
- Large push-to-talk button

Options

- Customized plugs and cables
- Flame resistant plastic housing
- Amplifier
- Additional loudspeaker or hands-free microphone

Application Range

 Mobile radio and PA systems with increased ambient noise

Accessories

- A10 cradle
- A12, A12/2, A12/L cradle

Scope of Delivery

■ Handset with PEIGUM® spiral cable

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 41 mm, Width 58 mm, Depth 209 mm
Weight:	195 g (6.9 oz)
Connection:	7-wires halogen free PEIGUM® spiral cable,
	1 wire shielded, Draw length max. 1.5 m,
	without connector
Operating and	1 button, orange
display elements:	
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	200 Hz to 14 kHz at -10 dB
Sensitivity (in LRGP):	2 mV/Pa (-54 dBV/Pa \pm 3 dB) at 3 V/2 k Ω
Impedance:	1.4 k Ω ± 20 % at 1 kHz/RL = 2 k Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

Frequency range: 300 Hz to 4 kHz at -10 dB Sensitivity: 26 dBPa/V ± 3 dB (IEC 3.2 Low-Leak coupler) Impedance: 300 Ω ± 20 % at 1 kHz	Earpiece	
Impedance: $300 \Omega \pm 20 \%$ at 1 kHz	Frequency range:	300 Hz to 4 kHz at -10 dB
•	Sensitivity:	26 dBPa/V ± 3 dB (IEC 3.2 Low-Leak coupler)
	Impedance:	$300~\Omega$ ± 20 % at 1 kHz
Maximum output: 10 mW	Maximum output:	10 mW

10.09.2010





Handset with three buttons for Sepura SRM3500 and SRM3900

Article-No.: **2506-198-000-51**



Product:

Characteristics

- Unidirectional noise canceling electret microphone capsule
- Dynamic ear capsule
- Solid plastic housing
- Durable PEIGUM® spiral cable
- Automatic hook switch mechanism with A10 and A12 cradle
- Large push-to-talk button and two function buttons

Options

- Customized plugs and cables
- Flame resistant plastic housing

Application Range

 Mobile radio systems from Sepura (manufacturer)

Accessories

- A10, A12, A12/2, A12/L cradle
- Adapter cable for SEPURA SRM3500 and SRM3900 in various lengths

Scope of Delivery

 Handset with PEIGUM® spiral cable (Adapter cable is not included in the scope of delivery)

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 41 mm, Width 58 mm, Depth 209 mm
Weight:	280 g (9.9 oz)
Connection:	9-wires halogen free PEIGUM® spiral cable,
	shielded, Draw length max. 1.5 m,
	plug RJ50 10 cond.
Operating and	3 buttons, orange (push-to-talk button),
display elements:	blue & yellow (function buttons)
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Microphone	
Operating voltage (DC):	1.5 V to 10 V
Frequency range:	200 Hz to 14 kHz at -10 dB
Sensitivity (in LRGP):	5 mV/Pa (-46 dBV/Pa \pm 3 dB) at 3 V/2.2 k Ω
Impedance:	$1 \text{ k}\Omega$ ± 20 % at 1 kHz/RL = 2.2 k Ω
Directivity:	Cardioid (at 1 kHz; 180° -15 dB)

Earpiece	
Frequency range:	300 Hz to 4 kHz at -10 dB
Sensitivity:	26 dBPa/V ± 3 dB (IEC 3.2 Low-Leak coupler)
Impedance:	300 Ω ± 20 % at 1 kHz
Maximum output:	10 mW

10.09.2010





Handset with one push-to-talk button, LCD display and keypad

Article-No.: **2508-244-005-51**



Product:

Characteristics

- Graphics capable LCD display with backlight
- Fully DTMF keypad
- Integrated micro controller
- Dynamic ear capsule
- Electret microphone capsule
- Durable PEIGUM® spiral cable

Options

- Customized plugs and cables
- Software Development Kit (SDK)
- Customized display panel and keypad
- Flame resistant housing

Application Range

- Analog and digital radio systems
- Hand held controler for various public safety applications

Accessories

A8 cradle with screws

Scope of Delivery

- Handset with PEIGUM® spiral cable
- A8 cradle with screws

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions with cradle:	Height 35 mm, Width 50 mm, Depth 160 mm
Weight:	190 g (6.7 oz)
Connection:	9-wires halogen free PEIGUM® spiral cable,
	shielded, Draw length max. 1.5 m,
	plug RJ50 10 cond.
Operating and	1 push-to-talk button, blue, 12 dialing keys,
display elements:	9 function keys
Storage temperature:	-30 °C to +80 °C (-22 °F to +178 °F)
Operation temperature:	-20 °C to +70 °C (-4 °F to +158 °F)
Display:	Backlit LCD with
	96 x 54 Pixels, graphics capable
Firmware:	Terminal software

Microphone	
Operating voltage (DC):	9 V to 15 V
Frequency range:	150 Hz to 8 kHz at -10 dB
Sensitivity (in LRGP):	34 mV/Pa (-29 dBV/Pa ± 3 dB)
Impedance:	110 Ω ± 20 % at 1 kHz
Directivity:	Omnidirectional

Earpiece	
Frequency range:	400 Hz to 4 kHz at -10 dB
Sensitivity	34 dBPa/V ± 3 dB (IEC 3.2 Low-Leak coupler)
Impedance:	100 k Ω ± 20 % at 1 kHz
Max. input voltage:	80 mV





Cradle for Handset Series HA8x and HA8

Article-No.: **2507-171-000-51**



Product:

Characteristics

■ Glass fiber stregthened plastic

Options

■ Flame resistant version

Accessories

A86 attachment housing

Scope of Delivery

A8 cradle with screws

Technical Data:

General	
Housing:	Plastic PA GV15, black
Dimensions:	Height 11.7 mm, Width 48 mm, Depth 55.6 mm
Weight:	15 g (0.5 oz)
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10.09.2010





Cradle for handsets HA10 and HA11

Article-No.: **2507-034-000-51**



Product:

Characteristics

- Solid plastic long cradle
- Buttons for releasing the handset
- Switching contact (Hook)
- Connection via screw-down terminal strip

Options

- Flame resistant version
- Black release buttons
- Force release mechanism
- Long cradle for HA26 with magnet for switch contact in the handset

Accessories

- Cradle loudspeaker 4 Ω
- Cradle loudspeaker 8 Ω

Scope of Delivery

A10 cradle with base plate

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 40.5 mm, Width 63 mm, Depth 203 mm
Weight:	165 g (5.8 oz)
Connection:	12 cond. terminal strip
Operating and	Release buttons, orange
display elements:	

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Cradle for handset HA26

Article-No.: **2507-102-000-51**



Product:

Characteristics

- Solid plastic short cradle with base plate
- Magnet for hook switch
- Force release mechanism
- Slot for RJ45 or RJ50 connection socket

Options

- Flat design without slot for connection socket (A12/2)
- Release button (A12/L)

Accessories

- RJ45 connection socket
- RJ50 connection socket

Scope of Delivery

A12 cradle with base plate

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 41.5 mm, Width 66 mm, Depth 78 mm
Weight:	70 g (2.4 oz)

10.09.2010





Attachment housing A86 for A8 cradle

Article-No.: **2507-185-001-51**



Product:

Characteristics

- Solid plastic housing
- Use to integrate additional electronics
- Slots for two RJ45 or RJ50 connection sockets
- Cable exit on the back

Options

- Integrated hands-free electronics for handset series HA8x
- Loudspeaker (LS45)

Application Range

 Analog and digital radio systems in conjunction with HA8x

Accessories

A8 cradle with screws for A86

Scope of Delivery

- Housing upper part
- Housing lower part
- Screws

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 29 mm, Width 50 mm, Depth 97 mm
Weight:	40 g (1.4 oz)

10.09.2010





OBH₂

D-Loop earphone with phone plug

Article-No.: **2502-225-001-51**



Product:

Characteristics

- Flexible ear piece
- High comfort due to light weight
- Connection cable with spiral part
- Angled 3.5 mm phone plug
- For use on a speaker microphone or portable radio

Options

■ 2.5 mm phone plug

Application Range

■ Portable radios in mobile applications

Scope of Delivery

D-Loop earphone with cable and phone plug

Technical Data:

General	
Housing:	Plastic, black
Dimensions:	Height 68 mm, Width 15 mm, Depth 46 mm
Weight:	21 g (0.7 oz)
Connection:	2-wires
	Draw length max. 40 cm,
	3.5 mm phone plug
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Earpiece	
Frequency range:	100 Hz to 5 kHz at -10 dB
Effective sound pressure:	103 dB/1 mW ± 3 dB (IEC 3.2 Low-Leak coupler)
Impedance:	32 Ω ± 20 % at 1 kHz
Maximum output:	10 mW

10.09.2010





SSH₁

Acoustic tube earphone with phone plug

Article-No.: **2502-226-001-51**



Product:

Characteristics

- Two different silicon ear insert components
- High comfort due to light weight
- Connection cable with spiral section
- Angled 3.5 mm phone plug
- For use on a speaker microphone or portable radio
- Easily concealed

Options

2.5 mm phone plug

Application Range

■ Portable radios in mobile applications

Accessories

 Spare part set including tube earphone and silicon ear piece components

Scope of Delivery

 Acoustic tube earphone with cable and phone plug

Technical Data:

General	
Housing:	Plastic, black
Tube earphone:	Plastic, transparent
Dimensions:	Height 15 mm, Width 15 mm, Depth 60 mm
Weight:	22 g (0.7 oz)
Connection:	2-wires
	Draw length max. 40 cm,
	3.5 mm phone plug
Storage temperature:	-30 °C to +70 °C (-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C (-4 °F to +140 °F)

Earpiece	
Frequency range:	200 Hz to 6 kHz at -10 dB
Effective sound pressure:	78 dB/1 mW ± 3 dB (IEC 3.2 Low-Leak coupler)
Impedance:	32Ω ± 20% at 1 kHz
Maximum output:	10 mW

10.09.2010





PS12

Desktop system with dynamic microphone and one button

Article-No.: **6401-049-000-40**



Product:

Characteristics

- Rugged metal housing
- Dynamic unidirectional high noise canceling gooseneck microphone
- Very long life double switching contact

Options

- Customized plugs and cables
- Special button colors or symbols
- Microphone preamplifier
- Electret microphone mounted on 8 mm gooseneck
- Up to three butons and LEDs
- Black matte housing

Application Range

 Radio and PA systems in fixed indoor applications

Accessories

WS16 windscreen

Scope of Delivery

- Desktop system
- Strain relief

Technical Data:

General		
Microphone head:	Brass, sand bla	sted chrome (matte)
Gooseneck:	Metal, matte si	lver coated
Housing:	Metal, matte si	lver coated
Dimensions:	Mic. head:	Length 80 mm, Ø 24 mm
	Gooseneck:	Length 200 mm, Ø 11 mm
	Housing:	Height 32 mm, Width 105 mm,
		Depth 160 mm
Weight:	650 g (22.9 oz)	
Connection:	Cable and plug	
	not included	
Operating and	1 Button, black	
display elements:		
Storage temperature:	-30 °C to +70 °C ((-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C	(-4 °F to +140 °F)
Microphone		

Microphone	
Frequency range:	150 Hz to 12 kHz at -10 dB
Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
Directivity:	Cardioid (at 1 kHz; 180° -20 dB)

10.09.2010





PS12 USB

Desktop system with dynamic microphone and USB connection

Article-No.: **6401-003-000-40**



Product:

Characteristics

- Dynamic unidirectional high noise canceling gooseneck microphone
- Device recognized as external sound card by the computer
- Buttons and LEDs recognized as HID (Human Interface Device)
- Compatible with Microsoft® Windows® XP, Vista and Windows® 7
- Demo software available

Options

- Electret microphone mounted on 8 mm gooseneck
- Various gooseneck lengths
- Special button colors or symbols
- Black matte housing

Application Range

PC-based control centers in fixed indoor applications

Accessories

- WS16 windscreen
- Software sample kit (SSK)

Scope of Delivery

- Desktop system with USB cable
- Users manual

Technical Data:

General		
Microphone head:	Brass, sand blasted chrome (matte)	
Gooseneck:	Metal, matte si	lver coated
Housing:	Metal, matte silver coated	
Dimensions:	Mic. head:	Length 80 mm, Ø 24 mm
	Gooseneck:	Length 200 mm, Ø 11 mm
	Housing:	Height 32 mm, Width 105 mm,
		Depth 160 mm
Weight:	770 g (27.1 oz)	
Connection:	2 m cable with	USB-A plug
Operating and	1 Button, black	
display elements:	1 LED, blue	
Storage temperature:	-30 °C to +70 °C	(-22 °F to +158 °F)
Operation temperature:	-10 °C to +55 °C	(-14 °F to +131 °F)

Microphone		
Frequency range:	150 Hz to 12 kHz at -10 dB	
Directivity:	Cardioid (at 1 kHz: 180° -20 dB)	

10.09.2010





PS20

Desktop system with dynamic microphone, loudspeaker, three buttons and three LEDs

> Article-No.: 6402-056-000-40



Product:

Characteristics

- Rugged metal housing
- Dynamic unidirectional high noise canceling gooseneck microphone
- contacts
- Three LEDs
- ON/OFF toggle switch and volume control

Options

- Customized plugs and cables
- Special button colors or symbols
- Microphone preamplifier
- Electret microphone mounted on 8 mm gooseneck
- Audio amplifier for loudspeaker
- Black matte housing

Application Range

Accessories

Scope of Delivery

- Desktop system

Integrated loudspeaker
Three very high life double switching

Radio and PA systems in fixed indoor applications

■ WS16 windscreen

- Strain relief

10.09.2010

Technical Data:

General		
Microphone head:	Brass, sand bla	sted chrome (matte)
Gooseneck:	Metal, matte si	lver coated
Housing:	Metal, matte silver coated	
Dimensions:	Mic. head:	Length 80 mm, Ø 24 mm
	Gooseneck:	Length 200 mm, Ø 11 mm
	Housing:	Height 32 mm, Width 105 mm,
		Depth 160 mm
Weight:	700 g (24.7 oz)	
Connection:	Cable and plug	
	not included	
Operating and	3 Buttons, green, orange, black; toggle switch;	
display elements:	Potentiometer	47 Ω; 3 LEDs, green, red, yellow
Storage temperature:	-30 °C to +70 °C ((-22 °F to +158 °F)
Operation temperature:	-20 °C to +60 °C ((-4 °F to +140 °F)

Microphone		
	Frequency range:	150 Hz to 12 kHz at -10 dB
	Sensitivity:	1 mV/Pa (-60 dBV/Pa ± 3 dB)
	Impedance:	$200~\Omega$ ± $20~\%$ at 1 kHz
	Directivity:	Cardioid (at 1 kHz; 180° -20 dB)

Loudspeaker	
Frequency range:	1 kHz to 6 kHz at -10 dB
Effective sound pressure:	79 dB/1 W/1 m ± 3 dB
Impedance:	$8 \Omega \pm 20 \%$ at 1 kHz
Maximum output:	2 W





PS20 USB

Desktop system with USB connection, loudspeaker, three buttons and three LEDs

Article-No.: **6402-007-000-40**



Product:

Characteristics

- Dynamic unidirectional high noise canceling gooseneck microphone
- Integated loudspeaker
- Ports for external accessories
- Device recognized as external sound card by the computer
- Buttons and LEDs recognized as HID (Human Interface Device)
- Compatible with Microsoft® Windows® XP, Vista and Windows® 7
- Demo software available

Options

- Electret mic. mounted on 8 mm gooseneck
- Various gooseneck lengths
- Special button colors or symbols
- Black matte housing

Application Range

 PC-based control centers in fixed indoor applications

Accessories

- External power supply, various headsets
- Foot switch (PTT), Windscreen
- Software sample kit (SSK)

Scope of Delivery

Desktop system with USB cable 10.09.2010

Technical Data:

Brass, sand blast	ed chrome (matte)
Metal, matte silv	er coated
Metal, matte silver coated	
Mic. head: Gooseneck: Housing:	Length 80 mm, Ø 24 mm Length 200 mm, Ø 11 mm Heigth 32 mm, Width 105 mm,
	Depth 160 mm
800 g (28.2 oz)	
2 m cable with U	SB-A plug
3 Buttons, green, orange, black; ON/OFF toggle switch; volume control; 3 LEDs, green, blue, yellow	
-10 °C to +55 °C (-1	.4 °F to +131 °F)
	Metal, matte silv Metal, matte silv Mic. head: Gooseneck: Housing: 300 g (28.2 oz) 2 m cable with U 3 Buttons, green, ON/OFF toggle sv 3 LEDs, green, blu 30 °C to +70 °C (-2

місгорпопе		
Frequency range: 150 Hz to 12 kHz at -10 dB		
Sensitivity: 1 mV/Pa (-60 dBV/Pa ± 3 dB)		
Impedance: $200 \Omega \pm 20 \%$ at 1 kHz		
Directivity: Cardioid (at 1 kHz; 180° -20 dB)		

Loudspeaker

Integrated 2 Watt Class-D amplifier

Effective sound pressure: 79 dB/1 W/1 m ± 3 dB





KL1

Dynamic loudspeaker

Article-No.: **2601-001-000-51**



Product:

Characteristics

- Very rugged plastic housing
- Durable plastic speaker membrane
- Small design for easy installation
- Frequency range optimized for radio communication
- Flexible mount

Options

- Customized plugs and cables
- 8 Ω version
- Integrated volume control

Application range

■ For mobile and fixed radio systems

Accessories

KL1 spare parts set (mount and knurled screw)

Scope of delivery

Loudspeaker with cable and mount

Technical Data:

General	
Housing:	Plastic PA, black
Dimensions:	Height 72 mm, Width 77 mm, Depth 50 mm, Ø 58 mm
Weight:	175 g (6.1 oz)
Connection:	2-wire cable 2 m, without connector
Storage temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Operating temperature:	-30 °C to +60 °C (-22 °F to +140 °F)

Loudspeaker	
Frequency range:	300 Hz to 6 kHz at -10 dB
Effective sound pressure:	83 dB/1 W/1 m ± 3 dB
Impedance:	$4~\Omega$ ± 20 % at 1 kHz
Maximum output:	max. 5 W

10.09.2010





KL1/B

Dynamic loudspeaker

Article-No.: **2601-047-001-51**



Product:

Characteristics

- Very rugged plastic housing
- Small design for easy installation
- Frequency range optimized for hands-free systems
- Flexible mount

Options

- Customized plugs and cables
- 4 Ω version

Application range

For mobile and fixed hands-free systems

Accessories

KL1 spare parts set (mount and knurled screw)

Scope of delivery

Loudspeaker with cable and mount

Technical Data:

General	
Housing:	Plastic PA, black
Dimensions:	Height 72 mm, Width 77 mm, Depth 50 mm, Ø 58 mm
Weight:	225 g (7.9 oz)
Connection:	2-wire cable 3 m, without connector
Storage temperature:	-30 °C to +75 °C (-22 °F to +167 °F)
Operating temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Loudspeaker	
Frequency range:	300 Hz to 16 kHz at -10 dB
Effective sound pressure:	83 dB/1 W/1 m ± 3 dB
Impedance:	$8 \Omega \pm 20 \%$ at 1 kHz
Maximum output:	max. 5 W

10.09.2010





KL3

Dynamic loudspeaker

Article-No.: **2604-001-000-51**



Product:

Characteristics

- Solid plastic housing
- Wide frequency range
- Clamping or rotating mount
- Vertical or horizontal mounting

Options

- Customized plugs and cables
- 8 Ω version

Application range

 For mobile and fixed radio and hands-free systems

Accessories

 KL3 spare parts set (rotating mount, clamping mount and knurled screw)

Scope of delivery

 Loudspeaker with cable, rotating mount, clamping mount and knurled screw

Technical Data:

General	
Housing:	Plastic PC-ABS, black
Dimensions:	Height 67 mm, Width 105 mm, Depth 55 mm
Weight:	350 g (12.3 oz)
Connection:	2-wire cable 2 m,
	without connector
Storage temperature:	-40 °C to +80 °C (-40 °F to +176 °F)
Operating temperature:	-25 °C to +60 °C (-13 °F to +140 °F)

Loudspeaker	
Frequency range:	250 Hz to 8 kHz at -10 dB
Effective sound pressure:	90 dB/1 W/1 m ± 3 dB
Impedance:	4 Ω ± 20 % at 1 kHz
Maximum output:	max. 5 W

10.09.2010





DHL1/R

Compact horn loudspeaker

Article-No.: 6602-045-000-51



Product:

Characteristics

- Rugged flame resistant plastic housing
- Very compact design
- High sound output
- Protection class IP65 (6K5) (IEC 60529; VW 80101)
- Salt fog resistant (IEC 60068; VW 80101)

Options

- Customized plugs
- 8 Ω and 16 Ω versions
- Red housing

Application range

■ For mobile and fixed radio systems

Scope of delivery

Horn loudspeaker with cable

Technical Data:

General	
Housing:	Plastic PA66, black
	flame resistant per UL94 V-0;
	NF F 16-101/102 I2/F2; BS6853 Table 7/8 Ib II
Dimensions:	Depth 80 mm, Height 125 mm, Ø 115 mm
Weight:	940 g (33.1 oz)
Connection:	2-wire cable, halogen free, 6 m,
	without connector
Storage temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Operating temperature:	-25 °C to +85 °C (-13 °F to +185 °F)

Loudspeaker	
Frequency range:	600 Hz to 4 kHz at -10 dB
Effective sound pressure:	104 dB/1 W/1 m ± 3 dB
Impedance:	4Ω ± 20 % at 1 kHz
Maximum output:	max. 25 W

10.09.2010





DHL1/R

Compact horn loudspeaker

Article-No.: 6602-045-000-53



Product:

Characteristics

- Rugged flame resistant plastic housing
- Very compact design
- High sound output
- Protection class IP65 (6K5) (IEC 60529; VW 80101)
- Salt fog resistant (IEC 60068; VW 80101)

Options

- Customized plugs
- 8 Ω and 16 Ω versions
- Black housing

Application range

For mobile and fixed radio systems

Scope of delivery

Horn loudspeaker with cable

Technical Data:

General	
Housing:	Plastic PA66, red
	flame resistant per UL94 V-0;
	NF F 16-101/102 I2/F2; BS6853 Table 7/8 Ib II
Dimensions:	Depth 80 mm, Height 125 mm, Ø 115 mm
Weight:	940 g (33.1 oz)
Connection:	2-wire cable, halogen free, 6 m,
	without connector
Storage temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Operating temperature:	-25 °C to +85 °C (-13 °F to +185 °F)

Loudspeaker	
Frequency range:	600 Hz to 4 kHz at -10 dB
Effective sound pressure:	104 dB/1 W/1 m ± 3 dB
Impedance:	4Ω ± 20 % at 1 kHz
Maximum output:	max. 25 W

10.09.2010





TF1

Gooseneck push-to-talk button

Article-No.: **2703-001-000-51**



Product:

Characteristics

- Rugged housing with gooseneck
- Position for improved ergonomics
- Perfect for specialty vehicles
- Long life switch contact
- Mounting bracket

Options

Customized plugs and cables

Application range

 Radio and PA systems in mobile and fixed applications

Accessories

■ BW2 Mounting bracket

Scope of delivery

- Gooseneck push-to-talk button with cable
- BW2 Mounting bracket

Technical Data:

General	
Housing:	Plastic PA, black
Gooseneck:	Steel coil with external brass winding, black
Dimensions:	Length 250 mm, Head Ø 19 mm,
	Body Ø 15 mm, Gooseneck Ø 11 mm
Weight:	150 g (5.3 oz)
Connection:	2-wire cable, 1.5 m,
	without connector
Operating and	1 Button, yellow
display elements:	
Storage temperature:	-40 °C to +80 °C (-40 °F to +176 °F)
Operation temperature:	-25 °C to +70 °C (-13 °F to +158 °F)

Switch		
Switching capacity:	max. 24 VDC/500 mA	
Life cycle:	200,000	
Protection class:	IP40	
Operating force:	max. 5 N	

10.09.2010





TF13

Water resistant gooseneck push-to-talk button

Article-No.: **2703-045-000-51**



Product:

Characteristics

- Rugged housing with gooseneck
- Integrated LED
- Protection class IP67
- Very long life switch contact

Options

Customized plugs and cables

Application range

- Radio and PA systems in mobile and fixed applications
- Perfect for specialty vehicles under in harsh environmental conditions

Accessories

- BW2 Mounting bracket
- Dust cover

Scope of delivery

- Gooseneck push-to-talk button with cable
- Dust cover
- BW2 Mounting bracket

Technical Data:

General	
Housing:	Plastic PA, black
Gooseneck:	Steel coil with external brass winding, black
Diameter in the second	
Dimensions:	Length 365 mm, Head Ø 19 mm,
	Body Ø 15 mm, Gooseneck Ø 11 mm
Weight:	270 g (9.5 oz)
Connection:	4-wire cable, 2 wires shielded 3.6 m,
	without connector
Operating and	1 Button, blue
display elements:	1 LED, red
Storage temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Operation temperature:	-30 °C to +70 °C (-22 °F to +158 °F)

Switch	
Switching capacity:	max. 48 VDC/200 mA
Life cycle:	500,000
Protection class:	IP67
Operating force:	max. 3 N

LED	
Nominal current:	20 mA
Illuminance:	Up to 125 mcd
Colour:	Red
Series resistor:	Must be connected externally

10.09.2010





GOOSENECKS

Goosenecks for microphone heads





Product:

Characteristics

- Steel coil with external brass winding *
- Chrome matte or black matte
- Ø 11 mm and Ø 15 mm with two M10 x 1 screw threads
- Ø 18 mm with M14 x 1.5 and M10 x 1 screw threads

Technical Data:

Diameter	Length	Weight	Smallest bend radius	Resulting bending angle	For fixed applications	For mobile applications
	150 mm	80 g (2.8 oz)		90°		
11 mm	200 mm	100 g (3.5 oz)	$r \approx 75 \text{ mm}$	120°	yes	no
	300 mm	130 g (4.6 oz)		150°		
	100 mm	100 g (3.5 oz)		30°		
15 mm	150 mm	150 g (5.3 oz)	r ≈ 125 mm	60°	yes	yes *
	300 mm	250 g (8.8 oz)		90°		* max. L = 150 mm
	240 mm	350 g (12.3 oz)		30°		
18 mm	340 mm	450 g (15.9 oz)	r ≈ 175 mm	60°	yes	yes
	440 mm	600 g (21.1 oz)		120°		

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 $Specifications \ subject \ to \ change. \ Product \ may \ differ \ from \ image.$





^{*} Minimal generation of metal dust possible in operation

BF2

Large mounting bracket with 10° angle

Article-No.: **2001-041-000-41**



Product:

Characteristics

- M14 screw thread
- For mounting of goosenecks with
- Suitable for mounting on a-pillars in vehicles
- Three Ø 5 mm mounting holes
- One Ø 6 mm cable feedthrough hole

Technical Data:

General	
Material, color:	Brass, matte black
Dimensions:	Length 126 mm, Width 33 mm, Ø 22 mm
Weight:	160 g (5.6 oz)

10.09.2010





Large base plate for goosenecks

Article-No.: **1014-006-002-20**



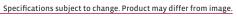
Product:

Characteristics

- M10 screw thread
- For mounting of goosenecks with Ø 11 mm and Ø 15 mm
- Ø 58 mm hole circle 3 x 120° ± 5°, Ø 6 mm bore hole
- Optional with M14 screw thread for mounting of Ø 18 mm goosenecks

Technical Data:

General	
Material, color:	Gray iron, hammer effect enamel grey
Dimensions:	Height 15 mm, Ø 80 mm
Weight:	270 g (9.5 oz)







Base plate for goosenecks

Article-No.: **1014-049-003-41**



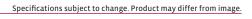
Product:

Characteristics

- M14 screw thread
- For mounting of goosenecks with Ø 18 mm
- Four Ø 4 mm bore holes

Technical Data:

General	
Material, color:	Brass, matte black
Dimensions:	Height 40 mm, Width 70 mm, Depth 38 mm
Weight:	280 g (9.9 oz)







Base plate for goosenecks

Article-No.: **1014-007-000-05**



Product:

Characteristics

- M10 screw thread
- For mounting of goosenecks with Ø 11 mm and Ø 15 mm
- Ø 48 mm hole circle 3 x 120° ± 1°, Ø 5 mm bore hole
- Optional with M14 screw thread for mounting of Ø 18 mm goosenecks

Technical Data:

General	
Material, color:	Bronze, matte black plasma coated
Dimensions:	Height 25 mm, Ø 65 mm
Weight:	280 g (9.9 oz)
Weight:	280 g (9.9 oz)

10.09.2010

 $Specifications \ subject \ to \ change. \ Product \ may \ differ \ from \ image.$





Flange

Article-No.: **1001-060-001-03**



Product:

Characteristics

- M10 screw thread
- For mounting of goosenecks with Ø 11 mm and Ø 15 mm
- Ø 33 mm hole circle 3 x 120° ± 1°, M5 screw holes
- Optional with M14 screw thread for mounting of Ø 18 mm goosenecks

Technical Data:

General	
Material, color:	Brass, sand blasted chrome (matte)
Dimensions:	Height 17 mm, Ø 42 mm
Weight:	130 g (4.6 oz)

10.09.2010

 $Specifications \ subject \ to \ change. \ Product \ may \ differ \ from \ image.$





High-strength right angle mount for goosenecks

Article-No.: **1014-036-001-26**



Product:

Characteristics

- M14 screw thread
- For mounting of goosenecks with Ø 18 mm
- Three Ø 4.5 mm mounting holes
- One Ø 8 mm cable feedthrough hole

Technical Data:

General	
Material, color:	Aluminium, matte black anodized
Dimensions:	Height 60 mm, Width 35 mm, Depth 40 mm
Weight:	41 g (1.4 oz)

10.09.2010





Right angle mount for TF1 and TF13

Article-No.: **1001-065-001-41**



Product:

Characteristics

- M10 hole for goosenecks
- Two Ø 4 mm mounting holes

Technical Data:

General	
Material, color:	Steel panel, matte black
Dimensions:	Height 44 mm, Width 18 mm, Depth 22 mm
Weight:	15 g (0.5 oz)

10.09.2010







L-Bracket for goosenecks

Article-No.: **1001-140-002-09**



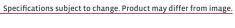
Product:

Characteristics

- For Ø 8 mm gooseneck microphones
- Rubber cover available as accessory
- Hole for M10 goosenecks
- 26 mm long oblong M5 opening for adjustable mounting

Technical Data:

General	
Material, color:	Steel panel, galvanized and blue passivated
Dimensions:	Height 20 mm, Width 18.4 mm, Depth 45 mm
Weight:	10 g (0.3 oz)







L-Bracket for goosenecks with anti-twist slot

Article-No.: **1001-140-000-09**



Product:

Characteristics

- For Ø 8 mm gooseneck microphones
- Anti-twist tab
- Rubber cover available as accessory
- Hole for M10 goosenecks
- 26 mm long oblong M5 opening for adjustable mounting

Technical Data:

General	
Material, color:	Steel panel, galvanized and blue passivated
Dimensions:	Height 20 mm, Width 18.4 mm, Depth 45 mm
Weight:	10 g (0.3 oz)







GA1

Rubber cover for L-Bracket BW3

Article-No.: **1013-123-000-51**



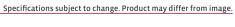
Product:

Characteristics

- Hides unsightly connection points
- Suitable for BW3

Technical Data:

General	
Material, color:	Plastic PE, black
Dimensions:	Height 25 mm, Width 26 mm, Depth 74 mm
Weight:	22 g (0.7 oz)







GMV

Shock absorber for microphone heads

Article-No.: **1001-109-003-51**



Product:

Characteristics

- Prevents the transfer of mechanical vibration to the microphone
- M10 screw thread
- For mounting between the microphone head and the gooseneck

Technical Data:

General	
Material, color:	Rubber EDPM Shore 60, black
Dimensions:	Height 44 mm, Ø 17 mm
Weight:	20 g (0.7 oz)

10.09.2010





HF1

High-strength mounting bracket, 120°

Article-No.: **2701-003-000-03**



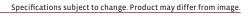
Product:

Characteristics

- For mounting short Ø 8 mm, Ø 11 mm and Ø 15 mm goosenecks
- Ø 10 mm hole for goosenecks
- With self locking nut

Technical Data:

General	
Material, color:	Steel panel, sand blasted chrome (matte)
Dimensions:	Height 53 mm, Width 31 mm, Depth 50 mm
Weight:	40 g (1.4 oz)







HF₂

High-strength mounting bracket, 120°

Article-No.: **2701-004-000-03**



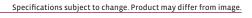
Product:

Characteristics

- For mounting microphone heads
- Rubber cushioned hollow screw with M10 screw thread

Technical Data:

General	
Material, color:	Steel panel, sand blasted chrome (matte)
Dimensions:	Height 53 mm, Width 31 mm, Depth 50 mm
Weight:	47 g (1.6 oz)







HF3

High-strength mounting bracket, 90°

Article-No.: **2701-004-001-03**



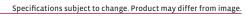
Product:

Characteristics

- For mounting microphone heads
- Rubber cushioned hollow screw with M10 screw thread

Technical Data:

General	
Material, color:	Steel panel, sand blasted chrome (matte)
Dimensions:	Height 53 mm, Width 31 mm, Depth 50 mm
Weight:	47 g (1.6 oz)







HS1

Retaining clamp for goosenecks on motor bike handle bars

Article-No.: **2701-015-000-03**



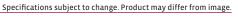
Product:

Characteristics

- M10 screw thread for Ø 15 mm goosenecks
- Optimized for Ø 22 mm handle bar mounting

Technical Data:

General	
Material, color:	Brass, sand blasted chrome (matte)
Dimensions:	Height 53 mm, Width 65 mm, Depth 21 mm
Weight:	120 g (4.2 oz)







Rugged plastic mount

Article-No.: **2701-001-000-51**



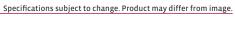
Product:

Characteristics

- For hand microphones with Ø 24 mm body
- Screw set included

Technical Data:

General	
Material, color:	Plastic PA, black
Dimensions:	Height 40 mm, Width 43 mm, Depth 45 mm
Weight:	17 g (0.6 oz)







Rugged plastic mount

Article-No.: **2701-002-000-51**



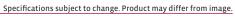
Product:

Characteristics

- For speaker micophones
- Screw set included

Technical Data:

General	
Material, color:	Plastic PA, black
Dimensions:	Height 53 mm, Width 43 mm, Depth 27 mm
Weight:	10 g (0.3 oz)







Rugged plastic mount

Article-No.: **2701-037-000-51**



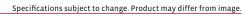
Product:

Characteristics

- For speaker micophones
- Screw set included

Technical Data:

General	
Material, color:	Plastic PA, black
Dimensions:	Height 37 mm, Width 35 mm, Depth 20 mm
Weight:	9 g (0.3 oz)







Rugged plastic mount

Article-No.: **2701-038-000-51**



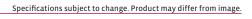
Product:

Characteristics

- For speaker micophones
- Screw set included

Technical Data:

General	
Material, color:	Plastic PA, black
Dimensions:	Height 69 mm, Width 43 mm, Depth 27 mm
Weight:	20 g (0.7 oz)







Windscreen for microphones

Article-No.: **1010-042-003-64**



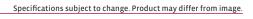
Product:

Characteristics

For microphones with 24 mm diameter head

Technical Data:

General	
Material, color:	Filter foam, 60 PPI, anthracite
Dimensions:	Ins. Ø 22 mm, Outs. Ø 50 mm, Height 54 mm
Weight:	2 g (0.01 oz)







Windscreen for gooseneck microphones

Article-No.: **1010-092-000-51**



Product:

Characteristics

 For gooseneck microphones ME352 and ME353

Technical Data:

General	
Material, color:	Filter foam, 60 PPI, black
Dimensions:	Ins. Ø 11 mm, Outs. Ø 24 mm, Height 36 mm
Weight:	<1 g (< 0.04 oz)







Windscreen for gooseneck microphones

Article-No.: **1010-045-000-64**



Product:

Characteristics

For gooseneck microphones ME251 and ME351

Technical Data:

General	
Material, color:	Filter foam, 60 PPI, anthracite
Dimensions:	Ins. Ø 9 mm, Outs. Ø 16 mm, Height 40 mm
Weight:	< 1 g (< 0.04 oz)

10.09.2010

 $Specifications \ subject \ to \ change. \ Product \ may \ differ \ from \ image.$





Windscreen for microphones

Article-No.: **1010-091-000-64**



Product:

Characteristics

■ For microphones ME1, ME2, ME3 and ME151

Technical Data:

General	
Material, color:	Filter foam, 60 PPI, anthracite
Dimensions:	Ins. Ø 9 mm, Outs. Ø 16 mm, Height 20 mm
Weight:	<1 g (< 0.04 oz)

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 $Specifications \ subject \ to \ change. \ Product \ may \ differ \ from \ image.$





Windscreen for gooseneck microphones

Article-No.: **1010-164-000-51**



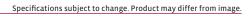
Product:

Characteristics

■ For gooseneck microphone ME353

Technical Data:

General	
Material, color:	Filter foam, 60 PPI, black
Dimensions:	Ins. Ø 7.6 mm, Outs. Ø 19 mm, Height 39 mm
Weight:	<1 g (< 0.04 oz)



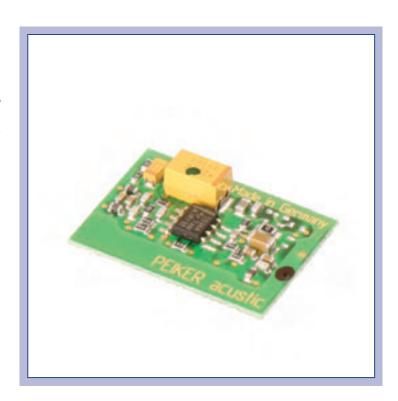




V856

2-wire amplifier for dynamic microphones

Article-No.: **2089-856-005-00**



Product:

Characteristics

- Universal preamplifier for dynamic microphones
- Amplification adjustable with parallel resistors
- Potentiometer for adjusting the output voltage

Options

- 3-wire version with potentiometer (V857-5)
- Preconfigured amplification levels

Application range

For dynamic microphones with slot for amplifiers

Scope of delivery

- Amplifier circuit board
- Connecting diagram

Technical Data:

General	
Dimensions:	Height 5.5 mm, Width 26.3 mm, Depth 19.2 mm
Weight:	2 g (0.01 oz)
Connection:	solder pads
Storage temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Operating temperature:	0 °C to 70 °C (32 °F to 158 °F)
2-wire op. voltage (DC):	8 V to 30 V
3-wire op. voltage (DC):	8 V to 30 V
Frequency range:	50 Hz to 10 kHz at -10 dB
Amplification:	up to 54 dB

10.09.2010

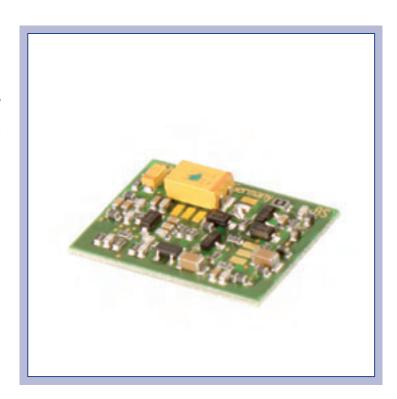




V966

2-wire amplifier for dynamic microphones

Article-No.: **2089-966-002-00**



Product:

Characteristics

- Universal preamplifier for dynamic microphones
- Amplification adjustable with parallel resistors
- Potentiometer for adjusting the output voltage

Options

- 3-wire version (V967-0)
- Preconfigured amplification levels

Application range

For dynamic microphones with slot for amplifiers

Scope of delivery

- Amplifier circuit board
- Connecting diagram

Technical Data:

General	
Dimensions:	Height 6.7 mm, Width 26.3 mm, Depth 19.2 mm
Weight:	2 g (0.01 oz)
Connection:	solder pads
Storage temperature:	-40 °C to +105 °C (-40 °F to +221 °F)
Operating temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
2-wire op. voltage (DC):	3 V to 10 V
3-wire op. voltage (DC):	1 V to 7 V
Frequency range:	50 Hz to 7 kHz at -10 dB
Amplification:	up to 54 dB

10.09.2010





PTCAR-PHONE 3

After market car phone with hands-free system

Article-No.: **2609-049-116-51**



Product:

Characteristics

- Wired handset for discreet phone calls
- Excellent speech and audio quality
- Data logger
- Data transmission via GSM, GPRS/EDGE
- Interface for second handset
- Free firmware updates (mobile provider data charges may apply)

Application Range

■ For retrofitting into vehicles

Accessories

- HA88 handset
- PTPhoneManager II
- Gooseneck microphone ME251

Scope of Delivery

- Handset with cradle
- Loudspeaker
- Hands-free microphone
- Electronics box
- Extension cable for handset (2.5 m)
- Cable set incl. interface
- Quick user manual

Technical Data:

Dimensions & cable length	
Electronics box:	Height 140 mm, Width 50 mm, Depth 35 mm
Handset:	Height 160 mm, Width 50 mm, Depth 25 mm
Loudspeaker:	Height 60 mm, Width 100 mm, Depth 45 mm
Hands-free microphone:	Cable length 3 m
Extension cable:	Cable length 2.5 m
Cable set:	Length 2 m

Specifications	
Capacity:	Storage for 1000 phone numbers
Display:	96 x 54 with 70 dpi resolution
Supporet Languages:	D, US, GB, FR, ESP, ITA, NL
Networks:	GSM 850/900/1800/1900 MHz
Operating temperature:	-20 °C to +70 °C (-4 °F to +158 °F)
Storage temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Interfaces:	RS232, GPRS
Operation voltage (DC):	10.8 V to 32 V
e1 approval number:	035674

Further information at: www.ptcarphone.eu

10.09.2010





PTCAR-PHONE 3 GPS

After market telematics system with hands-free system and GPS

Article-No.: **2609-049-117-51**



Product:

Characteristics

- Includes all PTCarPhone 3 features
- GPS positioning
- Can automatically record all routes
- Data transmission via SMS, E-Mail or FTP-Server with GPRS/EDGE
- Data logger (incl. GPS-Data)
- Interface for second handset

Application Range

■ For retrofitting into vehicles

Accessories

- HA88 handset
- PTPhoneManager II
- Gooseneck microphone ME251

Scope of Delivery

- Handset with cradle
- Loudspeaker
- Hands-free microphone
- Electronics box with integrated GPS module
- Extension cable for handset (2.5 m)
- Cable set incl. interface
- Quick user manual

Technical Data:

Dimensions & cable length	
Electronics box:	Height 140 mm, Width 50 mm, Depth 35 mm
Handset:	Height 160 mm, Width 50 mm, Depth 25 mm
Loudspeaker:	Height 60 mm, Width 100 mm, Depth 45 mm
Hands-free microphone:	Cable length 3 m
Extension cable:	Cable length 2.5 m
Cable set:	Length 2 m

Specifications	
Capacity:	Storage for 1000 phone numbers
Display:	96 x 54 with 70 dpi resolution
Supporet Languages:	D, US, GB, FR, ESP, ITA, NL
Networks:	GSM 850/900/1800/1900 MHz
Operating temperature:	-20 °C to +70 °C (-4 °F to +158 °F)
Storage temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Interfaces:	RS232, GPRS
Operation voltage (DC):	10.8 V to 32 V
e1 approval number:	035674

Further information at: www.ptcarphone.eu

10.09.2010





PTPHONE-MANAGER II

Software for central maintenance of phone books for PTCarPhone fleets

Article-No.: **6900-000-00**



Product:

Characteristics

- Data base address and contact data management
- Adding, editing and deleting of phone book entries
- Locking and unlocking of internal phone numbers
- Import and export of entries
 (Direct import from Microsoft® Outlook)
- Backup feature for saving your data
- Transmission methods: SMS, GSM and FTP via GPRS

Application Range

Vehicle fleets

Scope of Delivery

- Software on disc
- GSM modem
- GSM antenna
- Power supply
- USB to Serial adapter
- Quick user manual

Technical Data:

System requirements

Microsoft® Windows® XP / Vista / 7

Intel® Pentium® IV/1 GHz or equivalent

256 MB of RAM

50 MB free HDD storage

Screen resolution 1024 x 768

Serial or USB interface

Further information at: www.ptcarphone.eu

10.09.2010







ABKÜRZUNGEN short cuts

	Beschreibung	Description
.; 2	Sonderausführung oder Anzahl	Special version or number of parts
00	200 Ohm Impedanz	200 Ohm impedance
.L	eine LED	one LED
2L	zwei LEDs	two LEDs
BL	drei LEDs	three LEDs
LT	eine Taste	one button
2T	zwei Tasten	two button
BT	drei Tasten	three buttons
1xUm (SPDT)	Umschaltkontakt	Single pole double throw switch
2xUm (DPDT)	Doppel-Umschaltkontakt	Double pole double throw switch
A	Auflage für Handapparat	Cradle for handset
AK	Anschlusskabel	Connection cable
3F	Befestigungsflansch	Mounting flange
3P	Bodenplatte	Base plate
3W	Befestigungswinkel	Mounting angle
-	Kabel	Cable
DD	Dynamisches Mikrofon	Dynamic mikrophone
DHL	Druckkammerlautsprecher	Horn loudspeaker
Ξ	Erdfrei	Isolated from earth
ĒΑ	EIN/AUS Schalter	ON/OFF switch
EM	Einbaumikrofon (System)	Built-in microphone (system)
GΑ	Gummiabdeckung	Rubber cover
GMV	Körperschallabsorber	Impact sound absorber
-IA	Handapparat	Handset
HF	Halteflansch	Holding flange
HL)	Hoher Pegel	High level
HS	Halteschelle	Retaining clamp
HV	Haltevorrichtung	Holder
KL	Kleinlautsprecher	Loudspeaker
(LL)	Niedriger Pegel	Low level
LN	Geräuschkompensiert	Noise canceled
LS	Einbaulautsprecher	Built-in loudspeaker
LSR	Lautstärkeregler	Volume control
	Länge z.B. Kabel	Lenght e.g. for cables
m	Elektret Mikrofon	
ME		Electret microphone
ML	Mikrofonlautsprecher	Speaker microphone
OBH	Ohrbügelhörer	D-Loop earphone
0	Potentiometer	Potentiometer
PS	Pultsystem	Desktop microphone
PTT	Sprechtaste	Push-to-talk button
RC	passive Leiterplatte	passive circuit board
RJ45	Westernstecker 8 polig	Western plug 8-pin
RJ50	Westernstecker 10 polig	Western plug 8-pin
Schl.	Schrumpfschlauch	Heat shrinking tube
Sh.	Schwanenhals	Gooseneck
SSH	Schallschlauchhörer	Acoustic tube earphone
St.	Anschlussstecker	Plug
F	eine Taste	one button
ΓFR	zwei Tasten	two buttons
ΓF2R	drei Tasten	three buttons
M	Dynamisches Mikrofon	Dynamic microphone
TF	Doppelsprechtaste	Double button
J	aktive Leiterplatte (Verstärker)	activ circuit board (amplifier)
NS	Windschutz	Windscreen
	Zwangsentriegelung des Handapparat	Forced unlocking mechanism of the hands







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