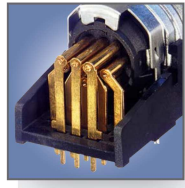




Push-pull locking



Gold solder contacts



Horizontal PCB mount

miniCON – 12 Pole Miniature Connectors



MSCM12



MMC* (modulares System)



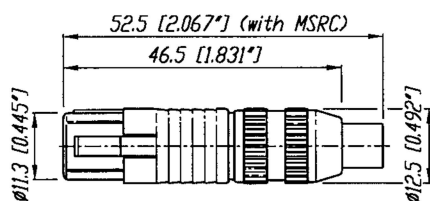
MRF12



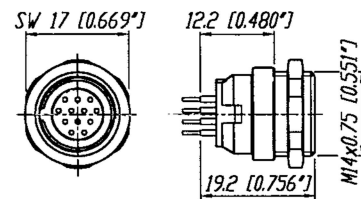
MPF12-H

- Up to 12 pole miniature connector
- Complete set or modular system available
- Push-pull self-locking system
- Precisely machined, rugged all metal design
- Fully loaded male and female receptacles for horizontal or vertical PCB mount
- Gold plated contacts, crimp or solder, velour chromium housing
- Special crimp type strain relief establishes an ideal coaxial connection of the cable shield to the connector shell for best EMC shielding
- Easy assembly: contact soldering in disassembled condition avoids awkward wiring of high density contacts
- Interchangeable insert (male-female)

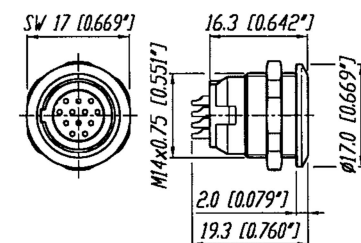
MSCF(M)12 (+MSRC)



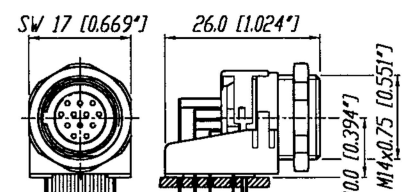
MPF(M)12-V



MRF(M)12



MPF(M)12-H

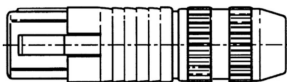


Ordering Information for complete miniCON set

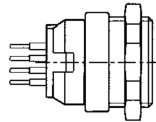
Complete set (consisting of housing, insert, 12 contacts and chuck for cable connector)

Female		Male	
MSCF12	Cable connector, chuck principle, solder contacts	MSCM12	Cable connector, chuck principle, solder contacts
MRF12	Receptacle panel mount, solder contacts	MRM12	Receptacle panel mount, solder contacts
MPF12-H	Receptacle horizontal PCB mount	MPM12-H	Receptacle horizontal PCB mount
MPF12-V	Receptacle vertical PCB mount	MPM12-V	Receptacle vertical PCB mount

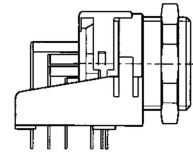
MSCF(M)12



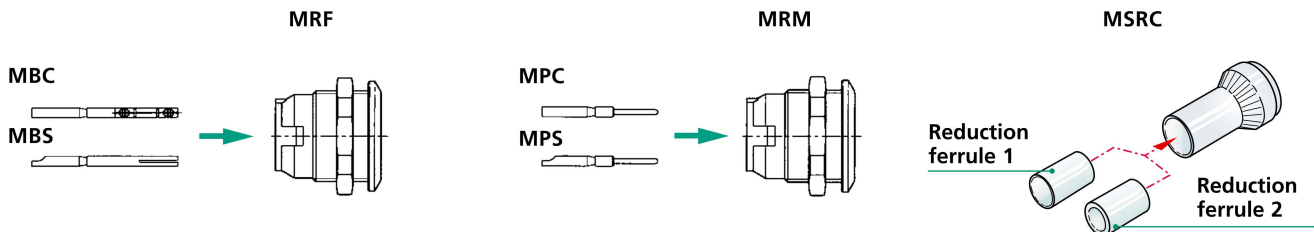
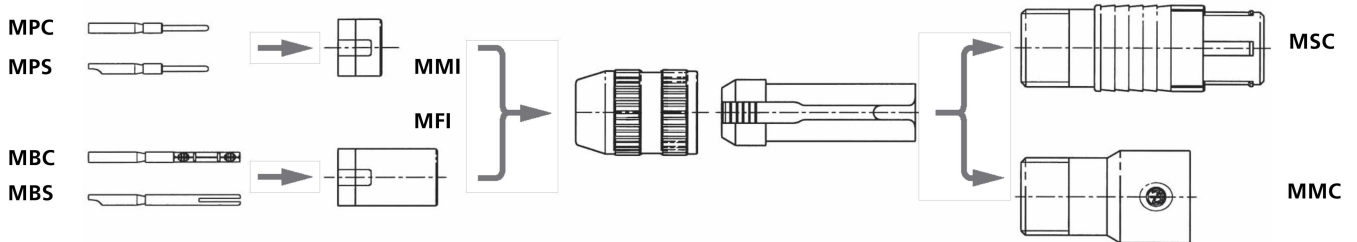
MPF(M)12-V



MPF(M)12-H



Ordering Information for modular miniCON system



Housing and insert pre-assembled, contacts must be ordered separately.

Modular system

Female		Male	
MFI	Insert for cable connector	MMI	Insert for cable connector
MBC	Crimp contacts for cable connector and receptacle	MPC	Crimp contacts for cable connector and receptacle
MBS	Solder contacts for cable connector and receptacle	MPS	Solder contacts for cable connector and receptacle
MRF	Receptacle housing and insert pre-assembled	MRM	Receptacle housing and insert pre-assembled
MMC	Cable connector extension, incl. chuck (for male and female)		
MSC	Cable connector housing, incl. chuck (for male and female)		
MSRC	Set of strain relief crimp version (consisting of crimp ferrule & reduction ferrule 1 + 2, tools see page 130)		



Push-pull locking



All metal housing



Colored bushing available

neutriCON – Versatile Circular Connectors



OSC8F



OSC8M-Ni



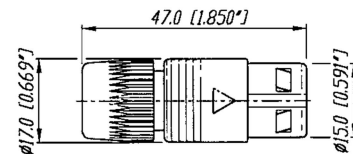
ORP8F-Ni



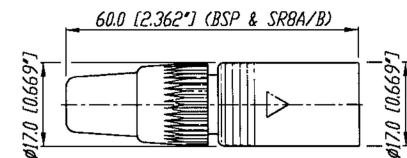
ORP8M

- Complete set or modular system for any desirable configuration
- Contact configuration can be selected from 1 to 8 contacts
- Special crimp type strain relief establishes an ideal coaxial connection of the cable shield to the connector shell for best EMC shielding
- Precise and robust all metal housing absorbs vibration forces and protects contact inserts
- Easy, fast and screwless assembly
- Push-pull self-locking system

OSC8F / OSC8M



MODULAR SYSTEM

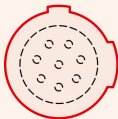


MC8 + SR8A/B + insert

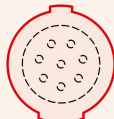
Polarization

Housing: Two variants of metal polarizing guides (90° and 180°).

Coding 90°

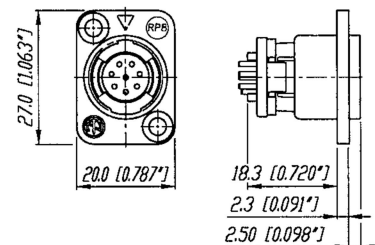


Coding 180°



Insert: The male and female insert can be assembled in all three housings.

ORP8F / ORP8M

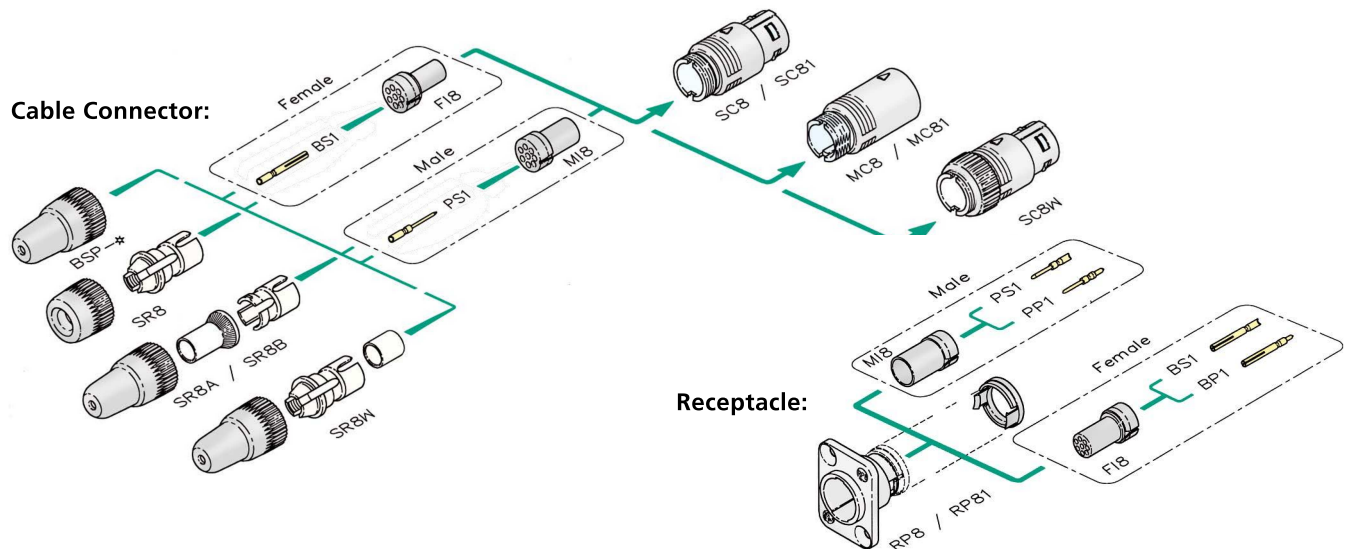


Ordering Information for complete neutriCON set

Complete set (consisting of housing, insert, 8 contacts and chuck for cable connector)

OSC8F	Female cable connector, chuck principle, black housing, solder contacts
OSC8F-Ni	Female cable connector, chuck principle, nickel housing, solder contacts
OSC8M	Male cable connector, chuck principle, black housing, solder contacts
OSC8M-Ni	Male cable connector, chuck principle, nickel housing, solder contacts
ORP8F	Female panel mount receptacle, black housing, solder contacts
ORP8F-Ni	Female panel mount receptacle, nickel housing, solder contacts
ORP8M	Male panel mount receptacle, black housing, solder contacts
ORP8M-Ni	Male panel mount receptacle, nickel housing, solder contacts

Ordering Information for modular neutriCON system



Modular system

Female		Male	
FI8	Insert for cable connector and receptacle	MI8	Insert for cable connector and receptacle
BS1	Solder contact	PS1	Solder contact
BP1	PCB contact	PP1	PCB contact
SC8	Cable housing, black coated, 180° coding	MC8	Mating cable housing, black coated, 180° coding
SC8-Ni	Cable housing, nickel coated, 180° coding	MC8-Ni	Mating cable housing, nickel coated, 180° coding
SC81	Cable housing, black coated, 90° coding	MC81	Mating cable housing, black coated, 90° coding
SC81-Ni	Cable housing, nickel coated, 90° coding	MC81-Ni	Mating cable housing, nickel coated, 90° coding
SC8W	Cable housing, black coated, 180° coding, waterproof multipin connector according IP54		
RP8	Receptacle, black coated, 180° coding		
RP8-Ni	Receptacle, nickel coated, 180° coding		
RP81	Receptacle, black coated, 90° coding		
RP81-Ni	Receptacle, nickel coated, 90° coding		
SR8	Bushing and chuck type strain relief (standard)		
SR8A	Crimp type strain relief for cable O.D. 3 – 3.8 mm (Hex crimp 5.41 mm acc. IEC 803, see also BNC Connectors)		
SR8B	Crimp type strain relief for cable O.D. 6 – 7 mm (Hex crimp 7.01 mm acc. IEC 803, see also BNC Connectors)		
SR8W	Bushing and chuck type strain relief for waterproof solution IP54		
BSP-*	Colored boot, available in 10 resistor colors		

* color coding: 0 - Black, 1 - Brown, 2 - Red, 3 - Orange, 4 - Yellow, 5 - Green, 6 - Blue, 7 - Violet, 8 - Grey, 9 - White



Assembly Tools

Crimptool



Crimping tool HX-CONTACT DMC crimping tool AFM8
acc. M22520/2-01



MPOS-*

Modified DMC positioner (K155) Contact positioner holds contact in position while crimping.

Contact and connector assembly



Crimptool HX-R-BNC NEUTRIK HEX crimping tool



DIE-R-BNC-*

NEUTRIK dies for various HEX sizes.

neutriCON - Ordering Information Assembly Tools

		Cable O.D. / Wire	Crimptool	Die/Positioner	HEX-Size/Standard
SR8A	Strain relief	3 – 3.8 mm	HX-R-BNC	DIE-R-BNC-PJ	5.41 mm / IEC 803
SR8B	Strain relief	6 – 7 mm	HX-R-BNC	DIE-R-BNC-PS	7.01 mm / IEC 803

miniCON - Ordering Information Assembly Tools

		Cable O.D. / Wire	Crimptool	Die/Positioner	HEX-Size/Standard
MSRC	Crimp ferrule only	4.5 – 6 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MSRC	Crimp ferrule & reduction ferrule 1	3.3 – 4.4 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MSRC	Crimp ferrule & reduction ferrule 2	2.5 – 3.2 mm	HX-R-BNC	DIE-R-BNC-PDC*	6.47 mm / IEC 803
MBC	Female crimp contact	AWG 24/0.22 mm ²	HX-CONTACT	MPOS-MBC	No. 5 / M22520/2-01
MPC	Male crimp contact	AWG 24/0.22 mm ²	HX-CONTACT	MPOS-MPC	No. 5 / M22520/2-01

*: DIE-R-BNC-PJ or PS also possible

Technical Data

Specification	nanoCON Series	miniCON Series	neutriCON Series
Electrical			
Number of contacts	3	12 (1-12 modular system)	8 (1-8 modular system)
Rated current per contact	2 A	3 A	7.5 A (solder), 5 A (crimp)
Rated voltage	50 V ac	50 V ac	50 V ac
Dielectric strength	1000 V dc	1000 V dc	1500 Vdc
Contact resistance	≤ 12 mΩ	≤ 8 mΩ	≤ 5 mΩ
Insulation resistance after damp heat test (IEC 68-2-30)	> 1 GΩ	> 500 MΩ	> 500 MΩ
Mechanical			
Retention method	latch	Push-pull	Push-pull
Cable O.D. range	max. 3.4 mm	3 – 5 mm (grey chuck)	3 – 7 mm
	-	5 – 7 mm (white chuck)	3 – 3.8 mm (SR8A)
	-	2.5 – 6 mm	6 – 7 mm (SR8B)
	-	(crimp version MSRC)	
Wiring	0.2 mm ² / 24 AWG	0.5 mm ² / 20 AWG	1.0 mm ² / 18 AWG
	for solid wire	for solder	for solder
	0.14 mm ²	0.22 mm ²	-
	26 AWG	24 AWG	-
	for stranded wire	for crimp	-
Solderability complies with IEC 68-2-20	●	●	●
Material			
Housing cable connector	CuSn4Pb4Zn4	ZnAl4Cu1 / CuZn39Pb3	ZnAl4Cu1 gal Ni or black chrome
Housing receptacle	CuZn39Pb2	ZnAl4Cu1	ZnAl4Cu1, gal Ni or black chrome
Insert	PETP	PA 6.6	PBTP 15% GR
Contacts	CuZn35Pb2	CuZn35Pb2 (solder)	CuZn35Pb2 (solder)
		CuZn39Pb3 (crimp)	
		CuSn6	
Contact surface	0.5 μm Au	0.2 μm AuCo	0.3 μm Au hard alloy over 2 μm Ni
Chuck POM	●	●	●
Environmental			
Flammability	UL 94 HB	-	●
Flammability	UL 94 V-0	●	-
Temperature range	-30 °C to +80 °C	●	●
Protection class (mated)	IP 40*	IP 5X	IP 5X
Safety Requirements EN/IEC61984	-	-	-
* : Receptacle			
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