

FISCHER MINIMAX TM SERIES

HIGH-DENSITY MINIATURIZATION | HIGH-SPEED DATA TRANSFER | RELIABILITY

KEY FEATURES

- Signal and Power
- Designed and tested to high-speed data transfer protocols
- IP68 sealed to -20m I 24h



J-6 / J-24

MINIMAX



PLUGS

CABLE MOUNTED

Body styles (MP11-L/S/Q)	J -
Technical dimensions	J-
Dimensions of overmolding	.]_

RECEPTACLES

CABLE MOUNTED



	Body styles (MR50-L/S/Q)	J-1
	Technical dimensions	J-1
_	Dimonejone of avarmolding	1_0



PANEL REAR MOUNTED

Body styles (MR11-L/S/Q; MR12-L/S/Q)	J-12
Technical dimensions	J-13

FOR ALL MINIMAX

Features	1-3
Electrical & contact configurations	J-16
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Accessories	J-19
Tooling	J-21
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This catalog covers our standard connector solutions. For specific requests, including hybrid or custom connectors, please contact your local sales representative.

HIGH-DENSITY MINIATURIZATION

- Unique combinations of signal and power
- Replace multiple large connectors with fewer and smaller ones
- Combine multiple protocols into one connector

SIZE

COMPARISON 1:1

SIZE 06 AND SIZE 08



UPTO 45% SMALLER

SIZE 08

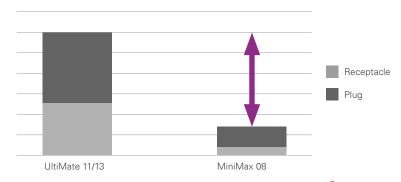
COMPARED TO STANDARD RECEPTACLES WITH SIMILAR NUMBER OF CONTACTS



UPTO 75% LIGHTER

SIZE 08

PLUGS & RECEPTACLES WEIGHT COMPARISON



Features

HIGH-SPEED DATA TRANSFER

ETHERNET 8-PIN 몸

A unique robust and sealed miniature connector for Ethernet applications in harsh environments.

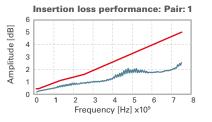
- AWG24, compatible with long range standard Ethernet cables
- Symmetrical hermaphroditic contact block
- 0.5mm contacts



USB 3.0 9-PIN *SS*←

Optimized design for full USB 3.0 performance. Successfully tested to the full S-parameter standards with cables up to 2m.

- Advanced power contacts
- Hermaphroditic contact block
- 0.5mm contacts





	06-4 pin	06-12 pin	08-8 pin	08-09 pin	08-19 pin	08-24 pin	
USB 2.0 •	YES	YES	YES	YES	YES	YES	Full spec up to 2m cable
USB 3.0 \$\$ <	NO	YES	NO	YES	YES	YES	Application dependent
USB 3.0 SS ←	NO	NO	NO	YES	NO	NO	Full spec up to 2m cable
ETHERNET 모	NO	YES	YES	NO	YES	YES	Ethernet AWG28
10 Gb/s □ □	NO	NO	YES	NO	NO	NO	Ethernet AWG24
номі Нәті	NO	NO	NO	NO	YES	YES	HDMI 1.4

MINIMAX

RELIABILITY

- IP68, -20m/24h* water sealing <10⁻⁶ mbar. I/sec gas sealing
- 5,000 mating cycles
- 1,000 h salt mist spray



*The standard sealing level can be achieved on all MiniMax receptacles when correctly integrated. For cabled plugs, the sealing level depends on the quality of the assembly process and the size and type of cable being used for the plug assembly.

Fischer Connectors guarantees standard IP64 cable sealing. Cable assemblies with IP68 sealing down to 2m or 20m is available upon request and might impose limitations and require additional testing.



FISCHER MINIMAX™ SERIES Features

HOUSING COLORS

MiniMax is available in two housing colors:

Nickel ANTHRACITE and Chrome BLACK.

- Both color solutions are non-reflective and offer a discreet connector solution for military applications.
- ■The anthracite treatment offers an improved panel grounding of <5 m Ω as required by MIL specs.



CONTACT COMBINATIONS

The MiniMax contact block is specified by a combination of 4 digits.

The first digit indicates the number of advanced contacts for first mate / last break. The second digit indicates the number of larger contacts (and with a larger solder cup) for power.

The digits 3 and 4 are to be considered as one number and will indicate the number of remaining contacts. (of standard size and not advanced).

MiniMax uses a hermaphroditic contact block for all configurations except for the 4-pin one (2 power + 2 signal) in Size 06. In this case, you need to specify the correct polarity and make sure to select the opposite polarity on the mating part. The table on the right shows all available standard contact block combinations to help you specify the correct product designation. (See page J-16).

Size	MR11 / MR12 / MR50		MP11
	0202 xxFx		0202 xxMx
06	0202 xxMx		0202 xxFx
	0210		0210
	0008	Mates with	0008
	0009		2007
08	0019 2017		0019
	0420 2418		0420

PLUGS

CABLEMOUNTED







Body style		MP11-L	MP11-S	MP11-Q	References to detailed information			
Ductostion	Sealed up to IP68	•	•	•	Cooling actoroxics many A.C.			
Protection	Hermetic				Sealing categories, page A-6			
1 12	Push-pull	•						
Locking system	Quick-release			•				
System	Screw		•					
Contacts	Crimp				Electrical & contact configurations, page 1.16			
Contacts	Solder	•	•	•	Electrical & contact configurations, page J-16			
Housing color	Nickel ANTHRACITE	•	•	•	Part numbering page 1 10			
	Chrome BLACK	•	•	•	Part numbering, page J-18			
	Shortened body							
Design	60° angle	•	•	•	Body styles, chapter J			
Design	Straight	•	•	•	body styles, diapter 3			
	Right-angle	•	•	•				
	Cable clamp sets							
Cabling	Overmoldable	•	•	•	-			
	Heat shrinkable	•	•	•				
	Cable bend reliefs	•	•	•				
Accessories	Protective sleeves				Accessories, page J-19 and J-20			
	Sealing caps	•	•	•				
Size	06	•	•	•	Technical dimensions, page J-8 and J-9			
3128	08	•	•	•	For more information visit our website www.fischerconnectors.com/technical			

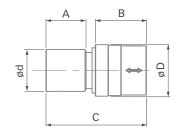
PLUGS

CABLEMOUNTED

MP11-L / PUSH-PULL

BODY STYLE

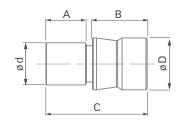




MP11-Q / QUICK-RELEASE

BODY STYLE

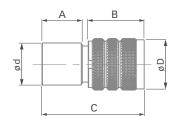




MP11-S / SCREW-LOCKING

BODY STYLE





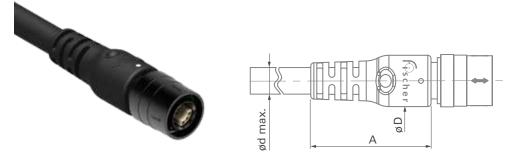
Size	Locking	ød	øD	Α	В	~ C
	Push-pull	8.5	9.9	10.1	12.8	25
06	Quick-release	8.5	9.9	10.1	13.6	25
	Screw	8.5	9.9	10.1	14.0	25
	Push-pull	10.5	12.9	10.1	12.8	25
08	Quick-release	10.5	12.9	10.1	13.6	25
	Screw	10.5	12.9	10.1	14.0	25

DIMENSIONS OF OVERMOLDING 1)

CABLEMOUNTED

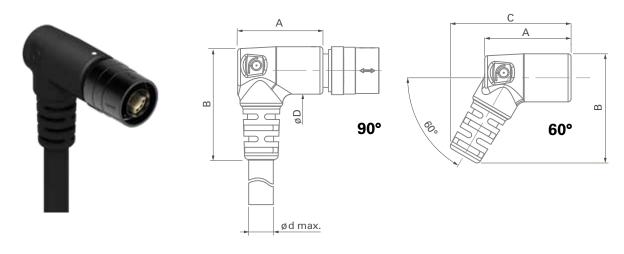
MP11-L/S/Q - MR50-L/S/Q

STRAIGHT OVERMOLDING



MP11-L/S/Q

RIGHT ANGLE & 60° OVERMOLDING

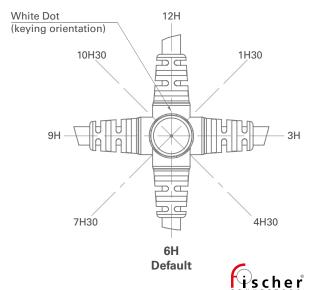


1) Overmolding available on reques	. Contact your Fischer	Connectors sales	representative for details.
------------------------------------	------------------------	------------------	-----------------------------

Size	Angle	ød max.	øD	Α	В	С
	Straight	4.7	10.8	30	-	-
06	60°	4.7	10.8	23	29.1	32.2
	90°	4.7	10.8	23	30	-
	Straight	6.7	12.8	30	-	-
08	60°	6.7	12.8	23	29.1	32.2
	90°	6.7	12.8	23	30	-

8 POSITIONS

ORIENTATION PARALLEL TO PANEL



All dimensions and images shown are in millimeters and are for reference only.

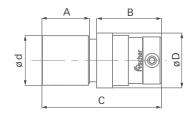
CABLE MOUNTED					
Body style		MR50-L	MR50-S	MR50-Q	References to detailed information
Ductosticu	Sealed up to IP68	•	•	•	Cooling actoroxics many A 6
Protection	Hermetic				Sealing categories, page A-6
	Push-pull	•			
Locking system	Quick-release			•	
oyoto	Screw		•		
Contacts	Crimp				Electrical & contact configurations, page J-16
Contacts	Solder	•	•	•	Electrical & contact configurations, page 3-16
Housing	Nickel ANTHRACITE	•	•	•	Part numbering, page J-18
	Chrome BLACK	•	•	•	
	Shortened body				
Dooign	60° angle	•	•	•	Body styles, chapter J
Design	Straight	•	•	•	body styles, chapter 3
	Right-angle	•	•	•	
	Cable clamp sets				
Cabling	Overmoldable	•	•	•	-
	Heat shrinkable	•	•	•	
	Cable bend reliefs	•	•	•	
Accessories	Protective sleeves				Accessories, page J-19 and J-20
	Sealing caps	•	•	•	
Size	06	•	•	•	Technical dimensions, page J-11
Size	08 • •		•	For more information visit our website www.fischerconnectors.com/technical	

CABLEMOUNTED

MR50-L / PUSH-PULL

BODY STYLE

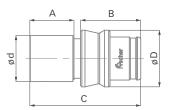




MR50-Q / QUICK-RELEASE

BODY STYLE

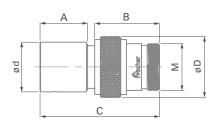




MR50-S / SCREW-LOCKING

BODY STYLE





Size	Locking	ød	øD	А	В	~ C	M
	Push-pull	Ø 8.5	Ø 9.9	10.1	13.7	25	-
06	Quick-release	Ø 8.5	Ø 9.9	10.1	13.7	25	-
	Screw	Ø 8.5	Ø 9.9	10.1	13.7	25	M8x2
	Push-pull	Ø 10.5	Ø 11.6	10.1	13.7	25	-
08	Quick-release	Ø 10.5	Ø 12.9	10.1	13.7	25	-
	Screw	Ø 10.5	Ø 12.9	10.1	13.7	25	M10x2

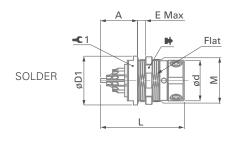
PANEL MOUNTED)							
Body style		MR11-L	MR11-S	MR11-Q	MR12-L	MR12-S	MR12-Q	References to detailed information
Protection	Sealed up to IP68 Hermetic	•	•	•	•	•	•	Sealing categories, page A-6
Contacts	Crimp Solder PCB	•	•	•	•	•	•	Electrical & contact configurations, page J-16
Housing color	Nickel ANTHRACITE Chrome BLACK	•	•	•	•	•	•	Part numbering, page J-18
Design	Right-angle Flush Front-projecting Bulkhead feedthrough	•	•	•	•	•	•	Body styles, chapter J
Assembly	Front-mounting Rear-mounting	•	•	•	•	•	•	
Accessories	Sealing caps Spacers Color-coded washers Grounding washers Locking washers	•	•	•	•	•	•	Accessories, page J-19 and J-20
Size	06	•	•	•	•	•	•	Technical dimensions, page J-13 to J-15 For more information visit our website www.fischerconnectors.com/ technical

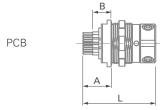
PANEL REAR MOUNTED

MR11-L / PUSH-PULL

BODY STYLE



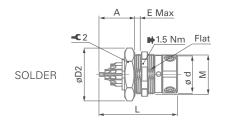


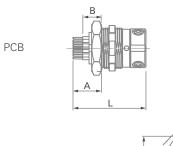


MR12-L / PUSH-PULL

BODY STYLE









Ť	<u>, </u>	-	•	øΧ	<i>X</i>	_	

Size	Locking	Termination	ød	øD1	øD2	Α	В	L	E max.	M Panel thread	-c 1	- € 2	Torque
06	Duah mull	Solder	8.0	10.0	11.4	7.6	-	19.1	3.0	M8.5x0.35	8	10	1.0Nm
06	Push-pull	PCB	8.0	10.0	11.4	7.3	4.7	18.8	3.0	M8.5x0.35	8	10	1.0Nm
00	December 1991	Solder	10.0	12.0	13.7	9.1	-	20.6	3.0	M10.5x0.5	10	12	1.5Nm
08	Push-pull	PCB	10.0	12.0	13.7	7.3	4.7	18.8	3.0	M10.5x0.5	10	12	1.5Nm

Size	øX	øY
06	8.58+0.1/0	8.25+0.1/0
08	10.45+0.1/0	10.2+0.1/0

FISCHER MINIMAX™ SERIES Technical dimensions

RECEPTACLES

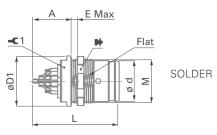
PANEL REAR

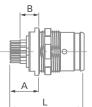
MOUNTED

MR11-Q / QUICK-RELEASE

BODY STYLE





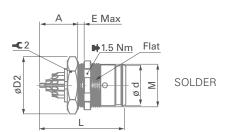


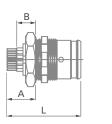
PCB

MR12-Q / QUICK-RELEASE

BODY STYLE

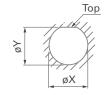






PCB





Size	х	Υ
06	8.58+0.1/0	8.25+0.1/0
08	10.45+0.1/0	10.2+0.1/0

Size	Locking	Termination	ød	øD1	øD2	Α	В	L	E max.	M Panel thread	-€ 1	-€ 2	Torque
06	Quick- release	Solder	7.8	10.0	11.4	7.6	-	19.1	3.0	M8.5x0.35	8	10	1.0Nm
06	Quick- release	PCB	7.8	10.0	11.4	7.3	4.7	18.8	3.0	M8.5x0.35	8	10	1.0Nm
00	0	Solder	9.8	12.0	13.7	9.1	-	20.6	3.0	M10.5x0.5	10	12	1.5Nm
08	Quick-release	PCB	9.8	12.0	13.7	7.3	4.7	18.8	3.0	M10.5x0.5	10	12	1.5Nm

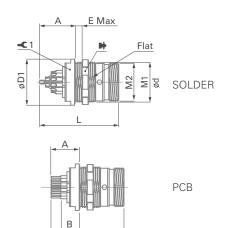
PANEL REAR

MOUNTED

MR11-S / SCREW-LOCKING

BODY STYLE

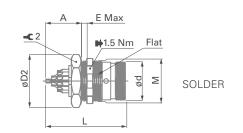


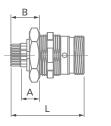


MR12-S / SCREW-LOCKING

BODY STYLE







PCB





Size	Locking	Termination	ød	øD1	øD2	Α	В	L	E max.	Panel thread	Locking thread	1	2	Torque	
06	Conorm	Solder	8.0	10.0	11.4	7.6	N/A	19.1	2.3	M8.5x0.35	M8x2	8	10	1.0Nm	
06	Screw	PCB	8.0	10.0	11.4	7.3	4.7	18.8	2.3	M8.5x0.35	M8x2	8	10	1.0Nm	,
00	C	Solder	10.4	12.0	13.7	9.1	-	20.6	2.3	M10.5x0.5	M10x2	10	12	1.5Nm	(
80	Screw	PCB	10.4	12 0	13 7	73	47	18.8	2.3	M10 5x0 5	M10×2	10	12	15Nm	(

Size	øX	øY
06	8.58+0.1/0	8.25+0.1/0
08	10.45+0.1/0	10.2+0.1/0

				[mm]	Wire size 1)	PCB	Current [A]	Rated voltage	Te	est voltage [kV]	in mated positi	on
	=		cts	r (m	vvire size	contacts	Current [A]	r.m.s [V]		IEC 60512	-4-1 test 4a	
	3 A Of		ber nta	act		Pin diameter	IEC	IEC	AC r	.m.s.	DC	
Size	Pin layout		Number of contacts	Contact diameter	Solder contacts	[mm] 60512-5-2-		60664-1 ³⁾	Contact to body	Contact to contact	Contact to body	Contact to contact
		4	2	0.5	maxø .70mm – AWG28 [7/36]	0.4	1.0	≤250	1.4	1.2	2.3	1.9
06		4	2	1.3	maxø 1.33mm – AWG18 [19/30]	0.7	10	≤250	1.4	1.2	2.3	1.9
Ub	0000	12	10	0.5	maxø .43mm – AWG30 [7/38]	0.4	1.0	≤250	0.9	0.9	1.5	1.0
		12	2	0.5	maxø .70mm – AWG24 [19/36]	0.4	5.0	≤250	0.9	0.9	1.5	1.2
	ETHERNET		8	0.5	maxø .70mm – AWG24 [19/36]	0.4	3.8	≤250	1.6	1.6	2.2	2.2
			7	0.5	maxø .43mm – AWG28 [19/40]	0.4	1.0	≤250	1.5	1.2	2.4	1.8
	USB 3.0	9	2 5)	0.5	maxø .70mm – AWG24 [19/36]	0.4	5.0	≤250	1.5	1.2	2.4	1.0
		19	15	0.5	maxø .70mm – AWG28 [7/36]	0.4	1.0	≤250	0.9	0.9	1.5	1.0
08		19	4	0.5	maxø .70mm – AWG24 [19/36]	0.4	5.0	≤250	0.9	0.9	1.5	1.2
VO		19	13+2 4)	0.5	maxø .70mm – AWG28 [7/36]	0.4	1.0	≤250	0.9	0.9	1.5	1.2
		19	4	0.5	maxø .70mm – AWG24 [19/36]	0.4	5.0	≤250	0.9	0.9	1.5	1.2
		24	20	0.5	maxø .43mm – AWG30 [7/38]	0.4	1.0	≤250	0.9	0.9	1.5	1.2
		24	4	0.5	maxø .70mm – AWG24 [19/36]	0.4	5.0	≤250	0.9	0.9	1.5	1.2
		24	18+2 ⁴⁾	0.5	maxø .43mm – AWG30 [7/38]	0.4	1.0	≤250	0.9	0.9	1.5	1.2
		24	4	0.5	maxø .70mm – AWG24 [19/36]	0.4	5.0	≤∠50	0.9	0.9	1.5	1.2

¹⁾ Stranding values in brackets. Wire size information is based on Fischer Connectors standard cabling recommendation for configuration with 2 or 4 power contacts.

⁵⁾ USB3.0 contact block comes with two advanced power contacts on the plug side (MP11) as standard.

Ø		Size	e 06	
CLES	Code 1	Code 2	Code 3	Code 4
RECEPTA				
Visual coding				

	Size 08										
Code 1	Code 2	Code 3	Code 4								

²⁾ Current per contact at 40°C temperature rise measured on the basic curve according to IEC 60512-5-2-5b. For the max. operating current a reduction factor must be used and limitations due to the size of the wires and the permissible upper temperature limit of the materials employed must be taken into account. See page A12 for details.

³ Recommended operating voltage at sea level. This rated voltage is a general where guideline where no other electrical safety standard applies. In case where other standards rule a specific use of the connector, Any application-specific safety criteria must take priority in situations where other . This must be evaluated in the frame of equipment engineering.

⁴⁾Two advanced signal contacts for USB power are available for Solder (S) or PCB (P) receptacles.

View from the back of the plug/front of receptacle (guide mark at 12 o'clock)

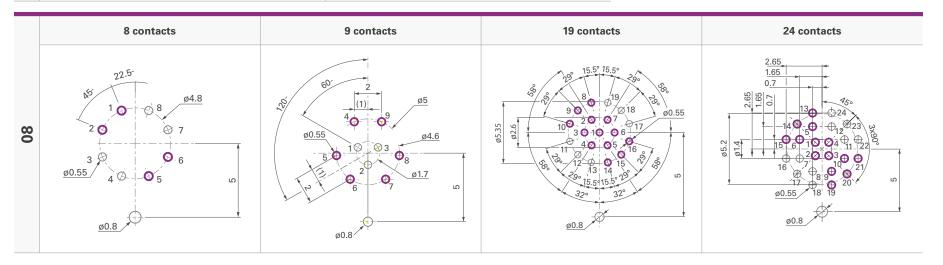
2+2 contacts 12 contacts 12 contacts All contacts are male or female depending on polarity.

Recommended wiring

	2+2	8	12	19	24
Power	2;4	any2	5;9	9; 12; 15; 18	14; 17; 20; 23
Ethernet	-	1/2; 3/4; 5/6; 7/8	1/6; 3/10; 7/8; 11/12	8/19; 10/11; 13/14; 16/17	15/16; 18/19; 21/22; 13/24
Advanced pin	2;4	-	-	13;19	18;24

¹⁾ Recommended

²⁾ Optional on MR11 / MR12



	Contacts				
	Plugs	Receptacles			
0	Male	Female			
0	Female	Male			

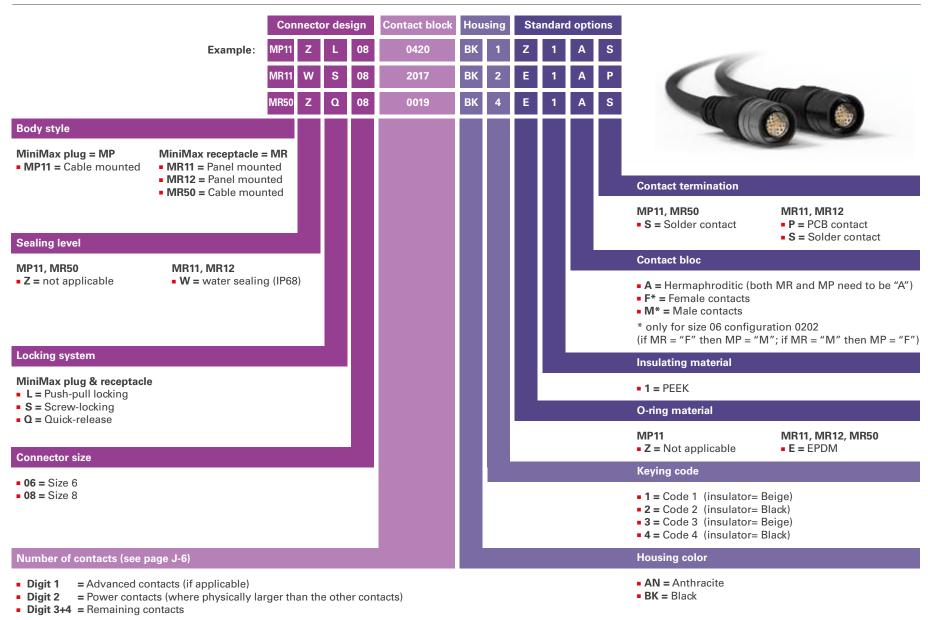
USB Signal name 3)



³⁾ For receptacles used as host connector for Fischer Rugged Flash Drive.

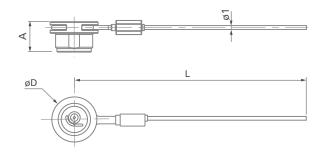


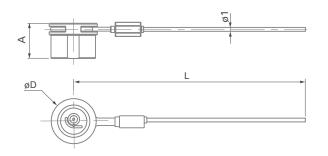
PLUGS & RECEPTACLES



SOFT CAPS

CABLE MOUNTED





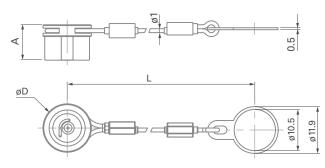
Size	Body style	Images	Push-pull	Quick-release	Screw-lock	Α	øD	L	Part number
06		MP11 1)	•			9.6	10.0	200	MCP06C 1B2 A200 AA
00	NAD44 1)			•	•	9.6	12.3	200	MCP06C 1B2 A200 BA
08	IVIPII		•			7.8	10.0	200	MCP08C 1B2 A200 AA
08				•	•	7.8	12.3	200	MCP08C 1B2 A200 BA

¹⁾Crimp ferrule and heat shrink tube are included.

06	MR50 ¹⁾	•	•	•	9.0	10.0	200	MCR06C 1B2 A200 AA
08	MR50 1)	•	•	•	9.0	12.3	200	MCR08C 1B2 A200 AA

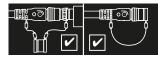
¹⁾Crimp ferrule and heat shrink tube are included.

PANEL MOUNTED



06	MR11 ¹⁾ MR12 ¹⁾	•	•	•	9	10	95	MCR06P 1B2 A095 AA
08	MR11 1) MR12 1)	•	•	•	9.0	12.3	95	MCR08P 1B2 A095 AA

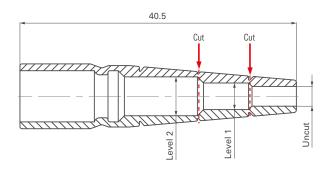
¹⁾Crimp ferrule, heat shrink tube and mounting ring are included.



To avoid getting debris into the caps when the connectors are mated, please mate the caps together. Please make sure that the cap is in place when the plug or the receptacle is in unmated position.



STRAIGHT BEND RELIEF



CUTTING DIAMETERS

Size	Uncut	Level 1	Level 2	Part Number
06	ø2.9	ø3.9	ø5.7	MB06 A1BK
08	ø3.9	ø5.4	ø6.7	MB08 A1BK

RIGHT-ANGLED HEAT SHRINKING TUBE



Size	Heat shrinking tube reference
06	HellermannTyton 1108-4-G BK 24-6
08	Hellermann Tyton 1152-4-G BK 24-6

PC-BOARD TERMINATION



- Rigid flex solution available for SMD connectors
- Compatible with signal & power
- Available for 19 & 24 pin configuration.
 Custom design and other configurations available upon request. Contact your Fischer Connectors sales representative.

SPANNER & NUT DRIVER

DOUBLE-ENDED OPEN SPANNER EXTRATHIN ♀



Size	Part number	Opening across flats	Length	Fork thickness	
06	TX00.008	8	96	2.3	
00	TX00.010	10	104	2.5	
80	TX00.012	12	104		

Material – Chrome Alloy Steel, Chrome plated, Fork Angles – 15° and 75°.

NUT DRIVER WITH T-HANDLE AND HEX DRIVE ▶



Part number	Thread size	Nut outer dia.	øD	Hex drive
TX00.383	M8.5x0.35	10	14	7
TC00.007	M10.5 x 0.5	12	16	7

Material - Hardened Tool Steel, Nickel plated.

SINGLE SIDED HEX NUT DRIVER



Part number	Thread size	Nut outer dia.	øD	Hex drive
TX00.386	M8.5x0.35	10	14	12
TX00.385	M10.5 x 0.5	13	16	12

Material – Hardened Tool Steel, Nickel plated and plastic.

CABLE ASSEMBLY



Part number	Description
130257	Hand press Luthy HP150T or equivalent



Part number	Description		
130254	MiniMax support tool		



Part number	Description
130252	MiniMax tool kit Size 06
130253	MiniMax tool kit Size 08

MATERIAL & SURFACE TREATMENT

Metal components		Material			Finish	
		Designation ISO	Standard	Designation	Standard	
Housing, Nut		Brass CuZn39Pb3	CW614N UNS C 38500	Black Chrome over Nickel Anthracite Nickel	SAE-AMS2460 SAE-AMS2404 SAE-AMS-QQ-N-290	
Back nut (MP11, MR50)		Brass CuZn39Pb3	CW614N UNS C 38500	Nickel	SAE-AMS-QQ-N-290B SAE-AMS2404G	
Ground contact		Brass CuZn39Pb3	CW614N UNS C 38500	Nickel	SAE-AMS-QQ-N-290B SAE-AMS2404G	
Push-pull locking spring Quick-release locking spring		Stainless steel	X10CrNi18-8 (1.4310)	-	-	
Contacts	- Male, Ground Pin	Brass CuZn39Pb3 Bronze	CW614N; UNS C 38500 CW456K; ASTM B139	1μm Gold over Nickel 1μm Gold over Nickel	MIL-DTL-45204D Type I; ASTM B488 MIL-DTL-45204D	
	Torridio	CuSn4Zn4Pb4	UNS C 54400		Type I; ASTM B488	
Ball-locking		Ceramic Si3N4	-	-	-	

Insulator and sealing		International symbol	Flammability	
Insulators		PEEK ¹⁾	UL 94 V-0	
O-rings	- General - Interface	FPM (Viton®) EPDM	-	
Sealant	- Cable connectors - Panel receptacles	Epoxy compound Silicone compound	- UL 94 V-0	
Bend relief	- Cable connectors	Santoprene™ TPV 101-73	UL 94 HB	
Сар	- Cable connectors - Panel receptacles	TPV (Santoprene™)	UL 94 HB	

¹⁾ Or any material in the PAEK family that provides equal or better overall performances.

ENVIRONMENTAL & MECHANICAL DATA

Characteristic	Performance	Standard	
Sealing performance mated and unmated	IP68, 20m/24h water sealing <10 ⁻⁶ mbar. I/sec gas sealing	IEC 60529	
Sealing performance Soft Cap IP67; 15cm submersion for 30 min		IEC 60529	
Operating temperature range 1)	-40°C to +135°C	IEC 60512-6-1 IEC 60068-2-14-Nb	
Corrosion resistance mated	Salt mist 1,000 hours; 5% salt solution, 35°C Plug and receptacle in mated position or with cap when unmated. Appearance may change over time without impacting mechanical or electrical functions.	IEC 60068-2-11 Test Ka; MIL-STD-202 Method 101; EIA-364-26	
Endurance	5,000 mating cycles Preserved mechanical and electrical functionality. Normal wear will appear.	appear. IEC 60512-9-1	
Vibration (Screw-locking version only)	10 to 2,000 Hz, 1.5mm or 15g, 12 sweep cycles per axis, 20 minutes per 10-2,000-10 Hz sweep cycle, no discontinuity >1µs	MIL-STD-202 G Method 204D Condition B	
Inlocking Force Size 06 = Typical 25N±40% Quick-release version only) Size 08 = Typical 35N±40%			
Shock	ock 300g		

¹⁾ Minimum mating temperature: -20°C

ELECTRICAL DATA

Characteristic		Performance	Standard	
Contact resistance		5 mΩ (typical value)	IEC 60512-2-1-2a; IEC 60512-2-2-2b	
Shell resistance 2)	ANTRHACITE	<5 mΩ (Cabled)	IEC 60512-2-6-2f	
	BLACK	<50 m Ω (Cabled)	IEC 60512-2-6-2f	
Insulation resistance >10 ¹⁰ Ω		>10 ¹⁰ Ω	IEC 60512-3-1-3a	
Shielding effectiveness 36		360° shielded	-	

²⁾ Measured for a mated pair of panel receptacle and cable plug between the grounding pin and the cable shielding.