Fischer UltiMate™ Series

Technical Specifications

Connect²

Expertise Reliability Innovation



Rugged, compact, lightweight

Connectors and cable assemblies

www.fischerconnectors.com







FISCHER CONNECTORS

Fischer Connectors is a leading company in the design, manufacturing and distribution of high-performance connectors and cable assembly solutions. Known for their quality, ruggedness and excellent sealing, our products prove to be reliable in the most demanding environments.

Innovative and flexible, Fischer Connectors is committed to provide customized solutions of uncompromising quality. Primary design and manufacturing facilities are located in Switzerland, with subsidiaries and distributors located worldwide.



Connect² Expertise

We connect not only with customers who build devices, but with the people who use them on a daily basis, to better understand their needs.

- Engineering Expertise
- Supply Chain Expertise
- Market Expertise

Connect² Reliability

We focus on delivering on time, on cost and on experience connectivity solutions that stand up to the toughest conditions, so you know you can rely on our service and on uncompromising quality in all environments.

- Quality Reliability
- Delivery Reliability
- Response Reliability

Connect² Innovation

Our proven track record in first-to-market, innovative solutions is built on imagination, observation and significant investments in R&D. We help you bring new ideas to market quickly by putting our cutting-edge technology, production tools and experts at your service.

- Technology Innovation
- Product Innovation
- Solutions Innovation



PRODUCT FEATURES



- Sealing IP68/IP69 even unmated
- Hermetic
- Extremely robust mechanical keying
- 10,000 mating cycles





- 360° EMC shielding
- Grounding contact ring
- Easy cable assembly



- High shock & vibration resistance
- Operating temperature: -55°C to +135°C
- High corrosion resistance
- Blind mating



- Wide range of configurations
- Miniature & ultralight design
- Color overmolding available
- Crimp and solder contacts

CERTIFICATION & COMPLIANCE

Fischer Connectors is committed to quality throughout every phase of its operations. The company supports its customers and applies within its organization all directives and norms improving the quality, safety and environmental friendliness of its connectors, processes and systems.

MIL-SPECS: The Fischer UltiMate™ Series is engineered to withstand extreme operational environments, such as vibration, shock, rain, humidity, salt fog, sand/dust, or temperature; our military connectors are tested according to IEC standards.

ISO 9001

ISO 13485

ISO 14001

ROHS compliant

REACH







APPLICATIONS INTRODUCTION

The Fischer UltiMate™ Series is specially designed for a broad range of harsh environment applications. It offers rugged, compact, lightweight, sealed connectors and cable assembly solutions ideally suited to withstand a variety of severe environmental, industrial and chemical conditions.





Instrumentation



Defense



Industrial



Energy



Pharmaceutical



Transportation



Security



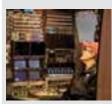
Vacuum



Oil & Gas



Broadcast



Automotive



Extreme



Food



Nuclear



CABLE ASSEMBLY **SOLUTIONS**

Fischer Connectors' skilled technical and support teams help you build the perfect Fischer UltiMate™ cable assembly for your unique application, providing advice through design, prototype, assembly, testing, manufacturing, installation, and beyond.

Our complete cable assembly solutions include:

- Overmolded cable assemblies, including thermoplastic & silicone
- Rugged & submersible cable solutions
- Heat shrinking for added protection and support to exposed wire
- Straight and right-angle overmolding





PRODUCT RANGE







UR01

PANEL REAR-MOUNTED



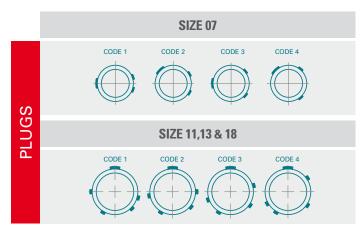
PANEL LOW PROFILE FRONT-MOUNTED



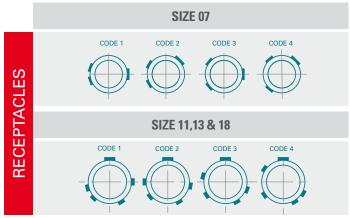
SHORT CABLE MOUNTED



MECHANICAL CODING











PART **NUMBERING**

STRUCTURE

	Connecto	or Design		Contact Block					
PARTS									
Body Style	Sealing Level	Locking System	Connector Size	Polarity	Number of Contacts	Contact Type			
AVAILABLE C	CHOICES								
UltiMate Plug = UP Cable Mounted Plug Short = UP01 Panel Mounted Plug Front mounted = UP50 UltiMate Receptacle = UR Panel Mounted Receptacle Rear mounted low profile = UR01 Rear mounted = UR02 Front mounted low profile = UR03 Cable Mounted Receptacle Short = UR50	Panel Mounted Vacuum sealing V* Water sealing W	Cable Mounted Plug Push-pull automatic locking system = L Quick release = Q Cable Mounted Receptacle = Z	 Size 7 = 07 Size 8 = 08 Size 11 = 11 Size 13 = 13 Size 18 = 18 	 Male contacts M Female contacts F 	O02 to 042 Contacts available per size: Size 07 002, 003, 004, 005, 007, 009, 010 Size 08 002, 003, 004, 005, 007, 009 Size 11 012, 016, 019 Size 13 027 Size 18 042	■ Solder = S ■ PCB = P ■ Crimp = C			
EXAMPLES	Cable Mounted * Not applicable IP68/69 with Fischer Connectors Cable Assembly Solution	Panel Mounted Not applicable	Size corresponds to Interface Diameter Plug and Receptacl in mm	of Male Contacts of	on Plug s on Receptacle y s on Plug				
UP0X		L	11	М	012	S			
Cable Mounted	Receptacles (U	R50 to UR99)							
UR5X		Z	11	F	012	S			
anel Mounted	Plugs (UP50 to U	P99)							
UP5X	W		11	M	012	S			
anel Mounted	Receptacles (U)	R01 to UR49)							



PART **NUMBERING**

STRUCTURE

Hous	ing	Standard Options							
PARTS									
Housing Color	Keying Code	O-Ring Material	Insulating Material	Grounding	Housing Material				
AVAILABLE CI	HOICES								
■ Standard= BK*	■ Code 1 (●) = 1 ■ Code 2 (▼) = 2 ■ Code 3 (■) = 3 ■ Code 4 (※) = 4	Receptacle O-ring at plug interface EPDM = E Plug Not applicable = Z	■PBT = 1 Size 08,11,13,18 only ■PEEK = 2 Size 07 only	Panel Mounted Grounding pin A Available for UR01/UR02 None = N for UR03/UP50 Cable Mounted Not applicable = Z	■ A = Aluminium ■ B = Brass**				
* Standard Housing Color is anthracite for size 07 * Standard Housing Color is black for size 08, 11, 13 and 18 Standard guide mark is white	Standard keying code 1 Visual coding on plug and receptacle ▼■ *	** Standard Housing Please contact us for	Material is Brass other o-ring material or	insulating material					

EXAMPLES

Cable Mounted Plugs (UP01 to UP49)

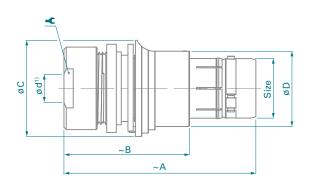
ВК	1	Z	1	Z	В				
Cable Mounted F	Receptacles (URS	50 to UR99)							
ВК	1	E	1	Z	В				
Panel Mounted Plugs (UP50 to UP99)									
Panel Mounted F	Plugs (UP50 to UP	299)							
Panel Mounted F	Plugs (UP50 to UP	Z	1	N	В				
	1	Z	1	N	В				



TECHNICAL **DIMENSIONS**

UP01 SHORT CABLE PLUG



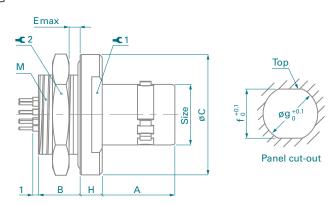


Size	Α	В	øC	øD	ød max	-c	Torque
07	28.0	18.0	12.0	9.0	4.5	8	1.5 Nm
08	39.0	25.0	15.0	10.5	4.5	10	2.5 Nm
11	39.5	26.0	18.5	13.7	7.1	12	3.0 Nm
13	50.0	34.0	21.7	16.0	8.7	17	3.5 Nm
18	58.0	38.0	29.0	22.7	13.7	22	6.0 Nm

¹⁾ Max. cable diameter below shield.

UP50 FRONT MOUNTED PANEL PLUG





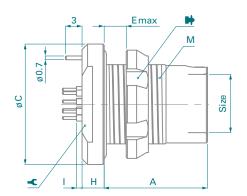
Size	Α	В	øC	E	f	øg	Н	М	- C1	= C 2	Torque
07	10.0	5.2	13.0	2.5	8.0	9.1	3.0	9x0.5	9	11	1.3 Nm
11	13.2	7.6	21.8	4.5	14.5	16.1	4.0	16x1	17	19	4.5 Nm

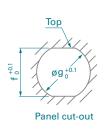


TECHNICAL **DIMENSIONS**

UR01 REAR MOUNTED LOW PROFILE PANEL RECEPTACLE*



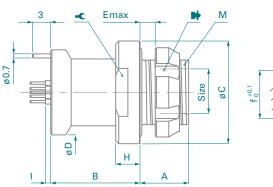


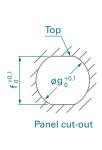


Size	Α	øC	E	f	øg	н	- 1	M	-c	I	Torque
07	14.2	14.0	4.5	9.2	10.1	3.0	0.7	10x0.5	11	TC00.007	1.5 Nm
08	18.7	16.9	5.0	10.9	12.1	4.0	1.0	12x1	15	TF00.001	2.5 Nm
11	18.7	21.8	7.0	14.5	16.1	4.0	1.0	16x1	17	TK00.002	4.5 Nm
13	22.5	23.8	5.5	16.5	18.1	4.0	1.0	18x1	20	TP00.011	6.0 Nm
18	29.3	31.8	7.5	23.2	25.1	4.0	1.0	25x1	27	TQ00.005	10.0 Nm

UR02 REAR MOUNTED PANEL RECEPTACLE*







Size	Α	В	øC	øD	E	f	øg	н	- 1	M	-c	•	Torque
07	6.5	10.7	14.0	13.0	3.5	8.0	9.1	3.5	0.7	9x0.5	11	TC00.000	1.3 Nm
08	8.0	14.7	16.9	14.0	4.0	10.9	12.1	4.0	1.0	12x1	15	TF00.001	2.5 Nm
11	8.0	14.7	21.8	18.8	4.0	14.5	16.1	4.0	1.0	16x1	17	TK00.002	4.5 Nm
13	10.5	16.0	23.8	20.0	5.0	16.5	18.1	4.0	1.0	18x1	20	TP00.011	6.0 Nm
18	11.0	22.3	31.8	26.0	5.0	23.2	25.1	4.0	1.0	25x1	27	TQ00.005	10.0 Nm

^{*} Standard version with PCB contacts and grounding pin.

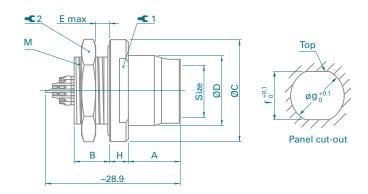


For solder contact version, special solder ground contact pin is included.

TECHNICAL **DIMENSIONS**

UR03 FRONT MOUNTED LOW PROFILE PANEL RECEPTACLE*

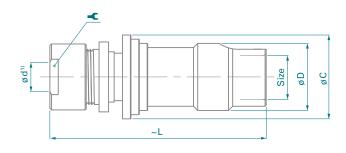




Size	Α	В	øC	øD	E	f	øg	н	M	= C1	= C 2	Torque
07	7.7	6.4	14.0	10.0	3.5	8.0	9.1	2.5	9x0.5	11	11	1.3 Nm
08	11.7	7.0	16.9	11.5	4.0	10.9	12.1	4.0	12x1	15	14	2.5 Nm
11	11.1	7.6	21.8	15.0	4.6	14.5	16.1	4.0	16x1	17	19	4.5 Nm

UR50 SHORT CABLE RECEPTACLE





Size	L	øC	øD	ø dmax	- C	Torque
07	27	12.0	10.0	4.5	8	1.5 Nm
08	39	15.0	12.0	4.5	10	2.5 Nm
11	39	18.5	15.5	7.1	12	3.0 Nm
13	50	21.7	17.9	8.7	17	3.5 Nm

¹⁾ Max. cable diameter below shield.



^{*} Standard version with solder contacts

CONTACT CONFIGURATIONS

				Wire S	Size ²⁾	РСВ	Current	Rated Vol-			tage [k	
						Contacts	Rating [A]	tage r.m.s [V]	IEC 60512-4-1 Test 4a			
			lmı				IEC 60512-5-2-5b	IEC 60664-1	AC r	m.s.	D	С
Size	Pin Layout	Number of Contacts	Contact Diameter [mm]	Solder Contacts ¹⁾	Crimp Contacts	Pin Diameter [mm]	3)	4)	Contact to Body	Contact to Contact	Contact to Body	Contact to Contact
		2	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	-	0.63	9.2	≤ 250	1.3	1.7	1.8	2.4
	•••	3	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	-	0.63	8.2	≤ 250	1.3	1.3	1.8	1.6
		4	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	-	0.50	5.5	≤ 200	1.2	1.2	1.7	1.8
07		5	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	-	0.50	5.2	≤ 160	0.8	1.0	1.3	1.8
		7	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	2.0	≤ 160	0.8	1.0	1.3	1.8
		9	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	1.7	≤ 160	0.8	1.1	1.2	1.8
		10	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	1.7	≤ 160	0.8	0.9	1.2	1.3

¹⁾ Stranding values are in brackets.



²⁾ For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

³⁾ Recommended max. operating current per contact at 40°C temperature rise.

⁴⁾ Recommended operating voltage at sea level.

This rated voltage is a general purpose guideline where no other electrical safety standard applies.

In cases where other standards rule a specific use of the connector, the application specific safety criteria shall be considered first. This must be evaluated in the framework of equipment engineering.

CONTACT CONFIGURATIONS

				Wire S	Size ²⁾	PCB Contacts	Current Rating [A]	Rated Vol-	i	n mated	tage [k	n
			nJ						IEC 60512-4-1 Test 4a			
		cts	r (mr	_		Į.	IEC 60512-5-2-5b	IEC 60664-1	AC r	m.s.	D	С
Size	Pin Layout	Number of Contacts	Contact Diameter [mm]	Solder Contacts ¹⁾	Crimp Contacts	Pin Diameter [mm]	3)	4)	Contact to Body	Contact to Contact	Contact to Body	Contact to Contact
		2	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	-	0.70	9.2	≤ 250	1.3	1.7	1.8	2.4
	••	3	0.9	max ø0.79mm AWG21 [1] AWG22 [7/30]	-	0.70	8.2	≤ 250	1.3	1.3	1.8	1.6
08		4	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	0.50	5.5	≤ 200	1.2	1.2	1.7	1.8
00		5	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	0.50	5.2	≤ 160	0.8	1.0	1.3	1.8
		7	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	2.0	≤ 160	0.8	1.0	1.3	1.8
		9	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	1.7	≤ 160	0.8	1.1	1.2	1.8
		12	0.7	max ø0.79mm AWG21 [1] AWG22 [7/30]	max ø0.62mm min ø0.38mm AWG24-28	0.50	4.2	≤ 250	1.6	1.6	2.6	2.3
11		16	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	2.7	≤ 250	1.2	0.9	2.0	1.5
		19	0.5	max ø0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	2.5	≤ 250	1.2	0.9	2.0	1.5
					5)							
13		27	0.5		max ø0.43mm min ø0.20mm AWG28-32	0.40	2.0	≤ 200	1.2	0.5	1.8	0.5
18		42	0.7	-	max ø0.62mm min ø0.38mm AWG24-28	0.50	3.0	≤ 250	1.5	1.5	2.4	2.5

¹⁾ Stranding values are in brackets.



²⁾ For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

³⁾ Recommended max. operating current per contact at 40°C temperature rise.

⁴⁾ Recommended operating voltage at sea level. This rated voltage is a general purpose guideline where no other electrical safety standard applies. In cases where other standards rule a specific use of the connector, the application specific safety criteria shall be considered first. This must be evaluated in the framework of equipment engineering.

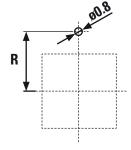
⁵⁾ Available on cable mounted plug & receptacle, standard polarity only. Please use General Crimping Instructions.

LAYOUT AND PIN NUMBERING

UP01 UP50 UR01 UR02 UR02 UR03 UR50

Position of optional ground pin

	R						
Size	UR01	UR02					
07	5.5						
08	6.0						
11	8.	.4					
13	9.	.0					
18	12.0						



PIN LAYOUT / PCB HOLE PATTERN1) - View from F

	ity ²⁾	Number of Contacts							
Size	Polarity ²⁾	2	3	4	5	7	9	10	
07	Standard	Ø0.8 1 2 2 00.8	60°	90°(4x) Ø0.8 1 45° 2 4 3 Ø0.65	00.8 72°(5x) 1 36° 30 0.65	00.8 60°(6x) 2 7 30° 4 51 00.55	00.8 9 45 8 22 9 22 9 7 30 4 5 6 6 00.55	## 4 0 2 10 12 12 12 12 12 12 12 12 12 12 12 12 12	
0	Inverted	0 	1 3 2		0 1 2 2 5 3	2 3 70 1 0 1 0 0 4 6 5 0 4	9 2 8 1 3 7 4 6 5	0 10 3 9 2 4 8 21 5 7 6	

	ity ²⁾			Number o	f Contacts		
Size	Polarity ²⁾	2	3	4	5	7	9
80	Standard	Ø0.8 1 1 2 2 Ø0.85	120°(3x) 00.8 60° 60°	90°(4x) Ø0.8 1 45° 2 4 3 Ø0.65	90.8 72°(5x) 2 1 36° 3 4 90.65	00.8 60°(6x) 2 7 30° 30 1 6 30° 4 00.55	90.8 20 9 22 10 10 10 10 10 10 10 10 10 10 10 10 10 1
0	Inverted	ф 1 2	1 3 2		1 2 3	2 3 70 10 10 4 6 5	9 2 8 7 3 7 4 6 5

¹⁾ Recommended PCB hole dimensions may be adjusted to application.

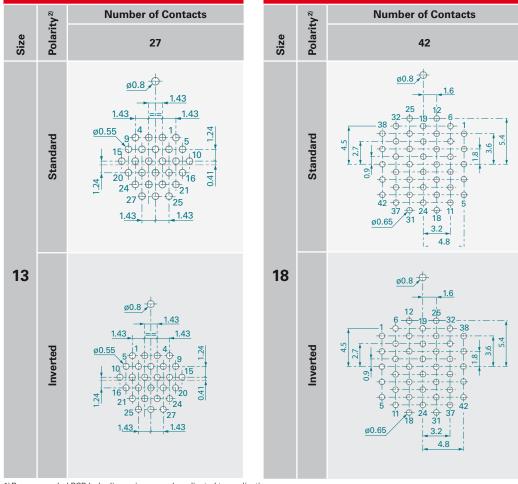


²⁾ Standard polarity: Male contacts on Plug / Female contacts on Receptacle. Inverted polarity: Female contacts on Plug / Male contacts on Receptacle.

LAYOUT AND PIN NUMBERING

PIN LAYOUT / PCB HOLE PATTERN1) - View from F

	ity ²⁾	Number of Contacts					
Size	Polarity ²⁾	12	16	19			
	Standard	Ø0.8 400 5 12 8 6 1 9 00.65 9	90.8 18 90.55 7 16 90.55 7 16 90.8 15 90.8 15 90.8 15 90.8 15 90.8 15 10 10 14 13 11 12	90.8 15° 30° 8 19° 9 16° 18° 110° 24° 115° 30° 18° 110° 24° 115° 30° 12° 24° 215° 20.55° 13° 14° 21° 21° 21° 21° 21° 21° 21° 21° 21° 21			
11	Inverted	12 4 5 11 3 0 1 6 10 2 2 7	16 7 15 6 2 8 14 5 0 1 9 13 4 3 10	18 19 8 17 6 2 9 17 6 2 10 - 10 16 5 4 3 11 15 4 13 12			



¹⁾ Recommended PCB hole dimensions may be adjusted to application.



²⁾ Standard polarity: Male contacts on Plug / Female contacts on Receptacle. Inverted polarity: Female contacts on Plug / Male contacts on Receptacle.

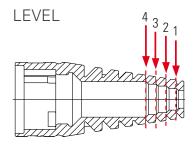
FISCHER ULTIMATE[™] BEND RELIEF

Top performance, no hassle

- No tool required: 5 steps to complete self-assembly
- Clean cut: perfectly adjust the bend relief to your cable diameter with a simple blade
- Long lasting:
 - Resists 10,000 constraints at a 90° angle
 - Operating temperature -55°C to +135°C
 - UV resistant







CUTTING DIAMETERS

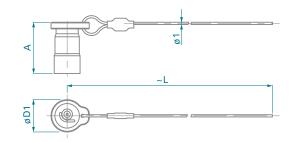
Size	Uncut	Level 1	Level 2	Level 3	Level 4	Part Number
07	ø1.9	ø2.9	ø3.9	ø4.9	-	UB07 A1BK
08	ø2.5	ø3.7	ø5.7	ø7.5	-	UB08 A1BK
11	ø3.9	ø5.4	ø6.9	ø8.9	-	UB11 A1BK
13	ø6.9	ø8.9	ø10.9	ø12.9	-	UB13 A1BK
18	ø6.9	ø8.4	ø10.4	ø11.9	ø13.9	UB18 A1BK



SOFT CAPS - LANYARD WITH THIN CORD

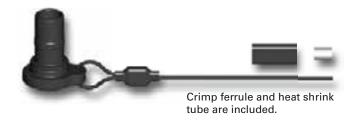
CABLE MOUNTED PLUGS

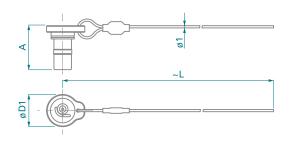




Size	Α	øD1	L	Part Number
07	18.5	11.0	200	UCP07C 1A1 A200
08	23.2	14.6	200	UCP08C 1A1 A200
11	22.0	17.6	200	UCP11C 1A1 A200
13	25.0	20.7	200	UCP13C 1A1 A200
18	29.5	28.7	200	UCP18C 1A1 A200

CABLE MOUNTED RECEPTACLES





Size	А	øD1	L	Part Number
07	16.0	11.0	200	UCR07C 1A1 A200
08	19.9	14.6	200	UCR08C 1A1 A200
11	19.2	17.6	200	UCR11C 1A1 A200
13	22.5	20.7	200	UCR13C 1A1 A200
18	25.0	28.7	200	UCR18C 1A1 A200

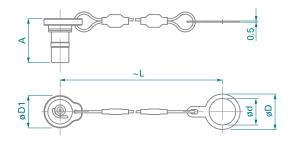


SOFT CAPS - LANYARD WITH THIN CORD

PANEL MOUNTED RECEPTACLES



Size	Α	øD1	L	d	D	Part Number
07	12.8	11.0	95	9	13	UCP07P 1A1 A095
	16.0	11.0	95	10	14	UCR07P 1A1 A095
08	19.9	14.6	95	12	16	UCR08P 1A1 A095
11	19.2	17.6	95	16	21	UCR11P 1A1 A095
13	22.5	20.7	95	18	23	UCR13P 1A1 A095
18	25.0	28.7	95	25	29	UCR18P 1A1 A095



Materia

Cap:TPV (Santoprene™) (Flammability UL 94HB)

Cord: Nylon

Fixing lug: Black chrome plated brass (ISO CuZn37)

Crimp ferrule: Nickel plated copper

TECHNICAL DATA

ENVIRONMENTAL & TECHNICAL SPECIFICATION

Characteristic	Performance and Standard		
Sealing Performance Mated and Unmated	«W» and «V» sealing level: IP68/IP691; IEC 60 «V» sealing level: Hermetic: Tested: <10-8 mbar		
Sealing Performance Soft Caps	IP68: 2m/24h; IEC 60529		
Operating Temperature Range	-55°C to +135°C ² ; IEC 60512-6-11 i+j; IEC 60068-2-14-Nb		
Corrosion Resistance	Salt mist, 1000 hours ³⁾ , 5% salt solution, 35°C IEC 60068-2-11 Test Ka; MIL-STD-202 Method 101; EIA-364-26		
Endurance	10'000 mating cycles IEC 60512-5-9a; EIA-364	4-09	
Vibration, random (Size 08, 11, 13, 18)	37.80 Grms, MIL-STD-202 Method 214A Cond	lition I; EIA-364-28 Condition V	
Vibration (Size 07)	10 to 2000 Hz, 1.5 mm or 15g, 12 sweep cycles per axis, 20 minutes per 10-2000-10 Hz s cycle, no discontinuity > 1us; MIL-STD-202 Method 204 Condition B		
Shock	300 g amplitude, half sine pulse of 3 ms, no discontinuity > 1 µs	MIL-STD-202 Method 213 EIA-364-27	

^{1) «} W » Water, « V » Vacuum; 2m submersion for 24 hours for standard connectors; 120m/24h or other depth/duration requirements are on request, please contact your local sales office.



²⁾ Min. mating temperature of -20°C with EPDM interface O-ring. Other materials on request.

Temperature range of -40°C to +125°C for cable connectors overmolded with TPU material.

³⁾ Preserved mechanical and electrical functionalities, connector in mated condition and with caps in unmated position; brass shell only.

TECHNICAL DATA

ELECTRICAL DATA

Characteristic Contact Size		Performance and Standard		
Contact Resistance over 10'000 Mating Cycles	Ø 0.5 mm Ø 0.7 mm Ø 0.9 mm	$5~\text{m}\Omega$ $5~\text{m}\Omega$ $4~\text{m}\Omega$	IEC 60512-2-1-2a IEC 60512-2-2-2b	
Insulation Resistance		> 10 ¹⁰ Ω	IEC 60512-3-1-3a	
Shielding Effectiveness 4)		> 55 dB (very good)	up to 1 GHz, IEC 60512-23-3	

⁴⁾ Size 08 connector pair.

MATERIAL & SURFACE TREATMENTS

Metal Parts		Mat	terial		Finish
	Nut. Spring Sleeve (Plug), Shell (Plug)		Standard	Designation	Standard
Nut, Spring Sleeve (Plu	Nut, Spring Sleeve (Plug), Shell (Plug)		EN-AW-6023	Chrome over	SAE-AMS 2460
		Brass CuZn39Pb3	CW614N UNS C 38500	Nickel	SAL-AIVIS 2400
Back Nut (Plug), Body ⁵⁾		Aluminium AlMgSiSn1Bi	EN-AW-6023	Nickel	SAE-AMS-QQ-N-290 SAE-AMS 2404
		Brass CuZn39Pb3	CW614N UNS C 38500	Nickei	
Ground Contact	Ground Contact		CW614N UNS C 38500	Nickel	SAE-AMS-QQ-N-290 SAE-AMS 2404
Contacts	- Male, Ground Pin - Female	Brass; CuZn39Pb3 Bronze; CuSn4Zn4Pb4	CW614N; UNS C 38500 CW456K; ASTM B 139 UNS C 54400	1µm Gold over Nickel	MIL-DTL-45204D Type I; ASTM B488
Insulator and Sealing		International Symbol	Flammability		
Insulator	- Molded	PBT, PEEK ⁶⁾	UL 94 V-0		
Inner Sleeve	- Cable connectors	POM	UL 94 HB		
O-rings	O-rings - General - Interface		UL 94 V-0 UL 94 HB		
Sealant Materials - Cable connectors - Panel receptacles		Bi-component epoxy Silicon compound	- UL 94 V-0		
Overmolding Material	- Cable connectors	TPU	UL 94 V-0		
Bend Relief	- Cable connectors	Santoprene™ TPV 101-64	UL 94 HB		

5) Anthracite color for Size 07

6) PBT for Size 08, 11, 13 and 18 only. PEEK for size 07 only $\,$



Fischer UltiMate[™] Series - Technical Specifications

YOUR NOTES			



FISCHER CONNECTORS

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