

Fischer UltiMate™ Series

Technical Specifications

Connect²

Expertise | Reliability | Innovation



Rugged, compact, lightweight

Connectors and cable assemblies

www.fischerconnectors.com



Dimensions



Configurations

fischer[®]
CONNECTORS

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

DURABILITY



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

PERFORMANCE



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

RUGGED



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

PERSONALIZED



- 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.



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

PLUGS	SHORT CABLE MOUNTED		PANEL FRONT MOUNTED	
				
RECEPTACLES	PANEL LOW PROFILE REAR-MOUNTED	PANEL REAR-MOUNTED	PANEL LOW PROFILE FRONT-MOUNTED	SHORT CABLE MOUNTED
				
	UR01	UR02	UR03	UR50

MECHANICAL CODING

PLUGS	SIZE 07				SIZE 08							
												
RECEPTACLES	SIZE 11,13 & 18				SIZE 07				SIZE 08			
												
	SIZE 11,13 & 18				SIZE 07				SIZE 08			
												

PART NUMBERING

STRUCTURE

Connector Design	Contact Block
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PARTS

Body Style	Sealing Level	Locking System	Connector Size	Polarity	Number of Contacts	Contact Type
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AVAILABLE CHOICES

<p>UltiMate Plug = UP</p> <p>Cable Mounted Plug</p> <ul style="list-style-type: none"> Short = UP01 <p>Panel Mounted Plug</p> <ul style="list-style-type: none"> Front mounted = UP50 <p>UltiMate Receptacle = UR</p> <p>Panel Mounted Receptacle</p> <ul style="list-style-type: none"> Rear mounted low profile = UR01 Rear mounted = UR02 Front mounted low profile = UR03 <p>Cable Mounted Receptacle</p> <ul style="list-style-type: none"> Short = UR50 	<p>Panel Mounted</p> <ul style="list-style-type: none"> Vacuum sealing = V* Water sealing = W <p>Cable Mounted</p> <ul style="list-style-type: none"> Push-pull automatic locking system = L Quick release = Q <p>Cable Mounted Receptacle = Z</p>	<ul style="list-style-type: none"> Size 7 = 07 Size 8 = 08 Size 11 = 11 Size 13 = 13 Size 18 = 18 	<ul style="list-style-type: none"> Male contacts = M Female contacts = F 	<p>002 to 042</p> <p>Contacts available per size:</p> <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Solder = S PCB = P Crimp = C
	<p>Cable Mounted * Not applicable</p> <p>IP68/69 with Fischer Connectors Cable Assembly Solution</p>	<p>Panel Mounted Not applicable</p>	<p>Size corresponds to Interface Diameter of Plug and Receptacle in mm</p>	<p>Standard Polarity Male Contacts on Plug Female Contacts on Receptacle</p> <p>Inverted Polarity Female Contacts on Plug Male Contacts on Receptacle</p>	

EXAMPLES

Cable Mounted Plugs (UP01 to UP49)

UP0X		L	11	M	012	S
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Cable Mounted Receptacles (UR50 to UR99)

UR5X		Z	11	F	012	S
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Panel Mounted Plugs (UP50 to UP99)

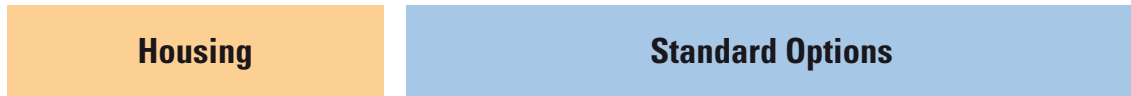
UP5X	W		11	M	012	S
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Panel Mounted Receptacles (UR01 to UR49)

UR0X	W		11	F	012	S
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PART NUMBERING

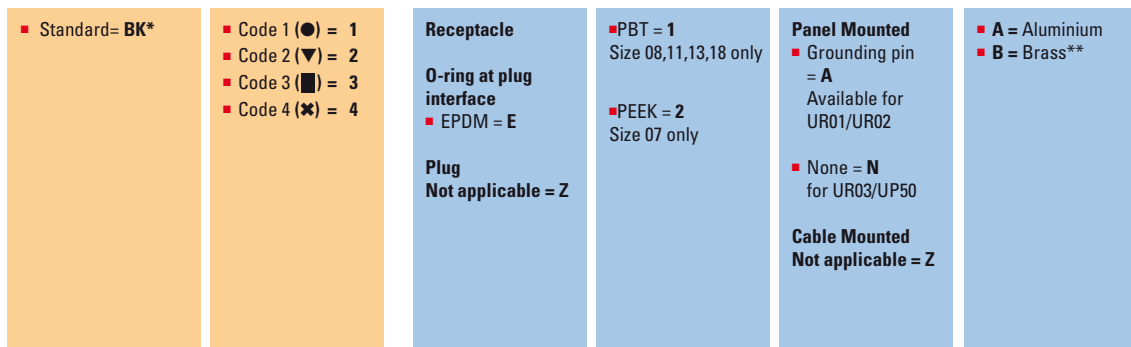
STRUCTURE



PARTS



AVAILABLE CHOICES



* 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 Material is Brass

Please contact us for other o-ring material or insulating material

EXAMPLES

Cable Mounted Plugs (UP01 to UP49)



Cable Mounted Receptacles (UR50 to UR99)



Panel Mounted Plugs (UP50 to UP99)

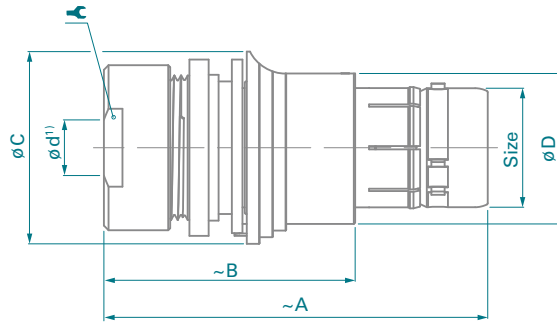


Panel Mounted Receptacles (UR01 to UR49)



TECHNICAL DIMENSIONS

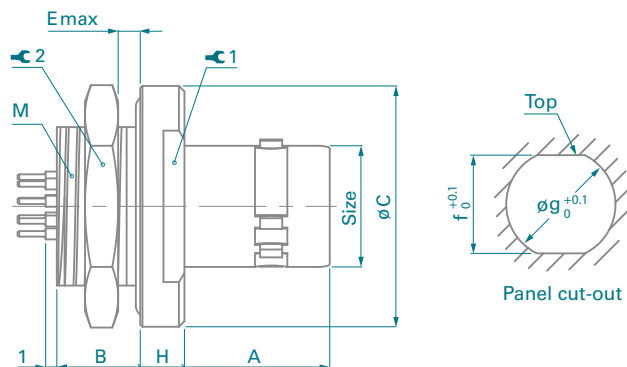
UP01 SHORT CABLE PLUG



Size	A	B	øC	øD	ød max	☞	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

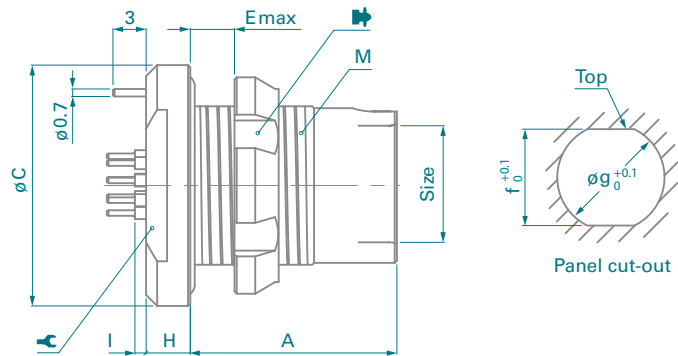


Size	A	B	øC	E	f	øg	H	M	☞ 1	☞ 2	Torque
07	10.0	5.2	13.0	2.5	8.0	9.1	3.0	9x0.5	9	11	1.3 Nm
11	13.2	7.6	21.8	4.5	14.5	16.1	4.0	16x1	17	19	4.5 Nm

All dimensions shown are in millimeters and are for reference only. They are subject to change without prior notice.

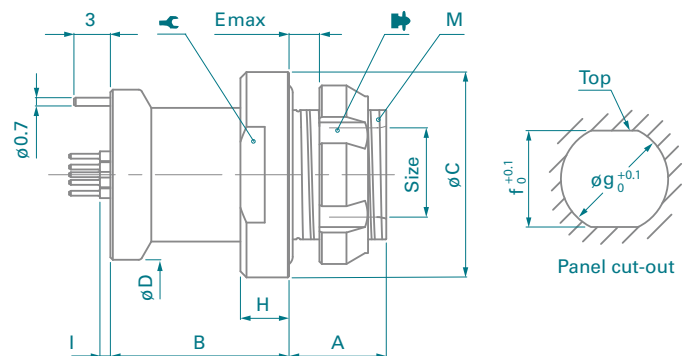
TECHNICAL DIMENSIONS

UR01 REAR MOUNTED LOW PROFILE PANEL RECEPTACLE*



Size	A	øC	E	f	øg	H	I	M	⌀	⌀	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*

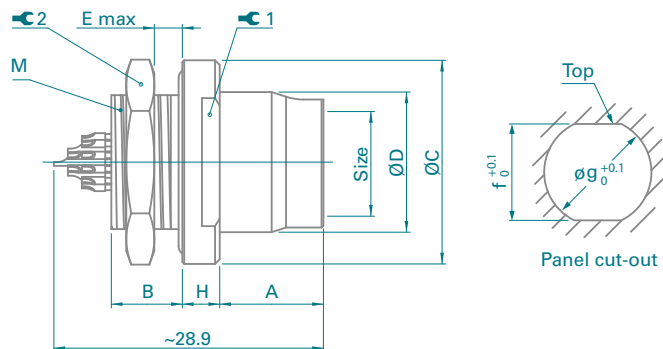


Size	A	B	øC	øD	E	f	øg	H	I	M	⌀	⌀	Torque
07	6.5	10.7	14.0	13.0	3.5	8.0	9.1	3.5	0.7	9x0.5	11	TC00.000	1.3 Nm
08	8.0	14.7	16.9	14.0	4.0	10.9	12.1	4.0	1.0	12x1	15	TF00.001	2.5 Nm
11	8.0	14.7	21.8	18.8	4.0	14.5	16.1	4.0	1.0	16x1	17	TK00.002	4.5 Nm
13	10.5	16.0	23.8	20.0	5.0	16.5	18.1	4.0	1.0	18x1	20	TP00.011	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.

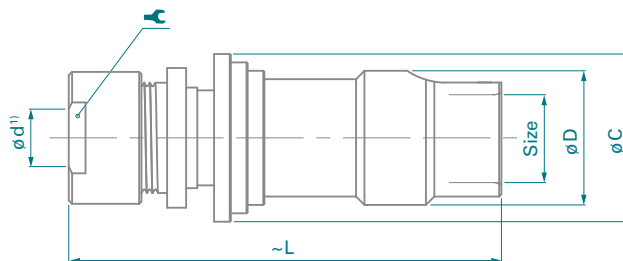
TECHNICAL DIMENSIONS

UR03 FRONT MOUNTED LOW PROFILE PANEL RECEPTACLE*



Size	A	B	ØC	ØD	E	f	Øg	H	M	⌘1	⌘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	⌘	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

Size	Pin Layout	Number of Contacts	Contact Diameter [mm]	Wire Size ²⁾		PCB Contacts	Current Rating [A]	Rated Voltage r.m.s [V]	Test Voltage [kV] in mated position			
				Solder Contacts ¹⁾	Crimp Contacts				Pin Diameter [mm]	IEC 60512-4-1 Test 4a		
						3)	4)	AC r.m.s.		DC		
								IEC 60512-5-2-5b		IEC 60664-1	Contact to Body	Contact to Contact
07		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
		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.

All dimensions shown are in millimeters and are for reference only. They are subject to change without prior notice.

CONTACT CONFIGURATIONS

Size	Pin Layout	Number of Contacts	Contact Diameter [mm]	Wire Size ²⁾		PCB Contacts	Current Rating [A]	Rated Voltage r.m.s [V]	Test Voltage [kV] in mated position				
				Solder Contacts ¹⁾	Crimp Contacts				Pin Diameter [mm]	IEC 60512-4-1 Test 4a			
										IEC 60512-5-2-5b		IEC 60664-1	
										3)		4)	
3)	4)	Contact to Body	Contact to Contact	Contact to Body	Contact to Contact								
08		2	0.9	max ϕ 0.79mm AWG21 [1] AWG22 [7/30]	-	0.70	9.2	\leq 250	1.3	1.7	1.8	2.4	
		3	0.9	max ϕ 0.79mm AWG21 [1] AWG22 [7/30]	-	0.70	8.2	\leq 250	1.3	1.3	1.8	1.6	
		4	0.7	max ϕ 0.79mm AWG21 [1] AWG22 [7/30]	max ϕ 0.62mm min ϕ 0.38mm AWG24-28	0.50	5.5	\leq 200	1.2	1.2	1.7	1.8	
		5	0.7	max ϕ 0.79mm AWG21 [1] AWG22 [7/30]	max ϕ 0.62mm min ϕ 0.38mm AWG24-28	0.50	5.2	\leq 160	0.8	1.0	1.3	1.8	
		7	0.5	max ϕ 0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	2.0	\leq 160	0.8	1.0	1.3	1.8	
		9	0.5	max ϕ 0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	1.7	\leq 160	0.8	1.1	1.2	1.8	
11		12	0.7	max ϕ 0.79mm AWG21 [1] AWG22 [7/30]	max ϕ 0.62mm min ϕ 0.38mm AWG24-28	0.50	4.2	\leq 250	1.6	1.6	2.6	2.3	
		16	0.5	max ϕ 0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	2.7	\leq 250	1.2	0.9	2.0	1.5	
		19	0.5	max ϕ 0.43mm AWG26 [1] AWG28 [19/40]	-	0.40	2.5	\leq 250	1.2	0.9	2.0	1.5	
				5)									
13		27	0.5	-	max ϕ 0.43mm min ϕ 0.20mm AWG28-32	0.40	2.0	\leq 200	1.2	0.5	1.8	0.5	
18		42	0.7	-	max ϕ 0.62mm min ϕ 0.38mm AWG24-28	0.50	3.0	\leq 250	1.5	1.5	2.4	2.5	

1) Stranding values are in brackets.

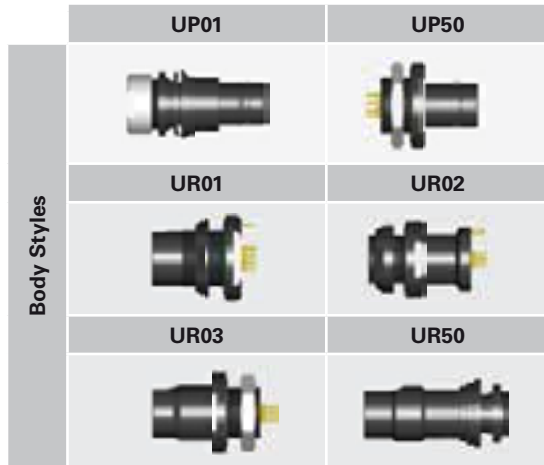
2) For a given AWG, the diameter of some stranded conductor designs could exceptionally be larger than the hole diameter of the barrel. Testing may be required.

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.

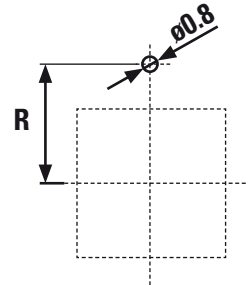
5) Available on cable mounted plug & receptacle, standard polarity only. Please use General Crimping Instructions.

LAYOUT AND PIN NUMBERING



Position of optional ground pin

Size	R	
	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

Size	Polarity ²⁾	Number of Contacts						
		2	3	4	5	7	9	10
07	Standard							
	Inverted							

Size	Polarity ²⁾	Number of Contacts					
		2	3	4	5	7	9
08	Standard						
	Inverted						

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.

All dimensions shown are in millimeters and are for reference only. They are subject to change without prior notice.

LAYOUT AND PIN NUMBERING

PIN LAYOUT / PCB HOLE PATTERN¹⁾ - View from F

Size	Polarity ²⁾	Number of Contacts		
		12	16	19
11	Standard			
	Inverted			

Size	Polarity ²⁾	Number of Contacts
		27
13	Standard	
	Inverted	

Size	Polarity ²⁾	Number of Contacts
		42
18	Standard	
	Inverted	

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.

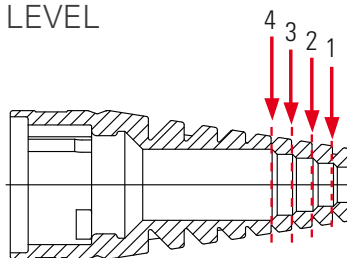
FISCHER ULTIMATE™ BEND RELIEF

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



LEVEL



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

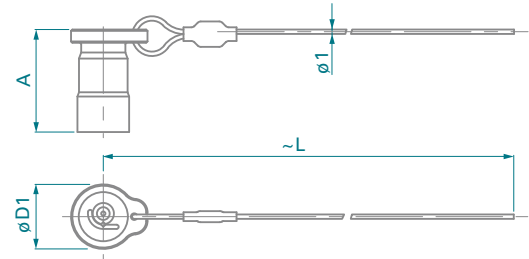
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SOFT CAPS - LANYARD WITH THIN CORD

CABLE MOUNTED PLUGS



Crimp ferrule and heat shrink tube are included.

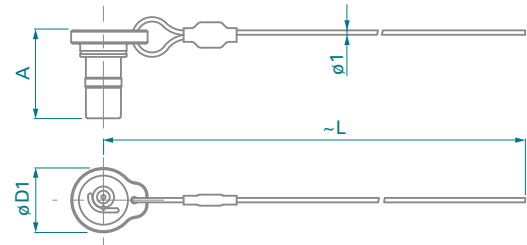


Size	A	øD1	L	Part Number
07	18.5	11.0	200	UCP07C 1A1 A200
08	23.2	14.6	200	UCP08C 1A1 A200
11	22.0	17.6	200	UCP11C 1A1 A200
13	25.0	20.7	200	UCP13C 1A1 A200
18	29.5	28.7	200	UCP18C 1A1 A200

CABLE MOUNTED RECEPTACLES



Crimp ferrule and heat shrink tube are included.



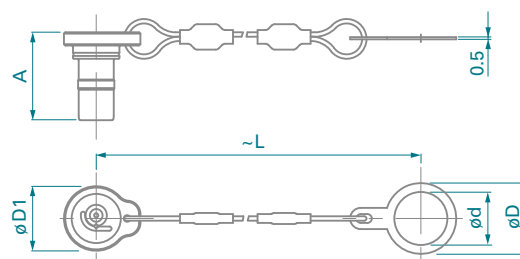
Size	A	øD1	L	Part Number
07	16.0	11.0	200	UCR07C 1A1 A200
08	19.9	14.6	200	UCR08C 1A1 A200
11	19.2	17.6	200	UCR11C 1A1 A200
13	22.5	20.7	200	UCR13C 1A1 A200
18	25.0	28.7	200	UCR18C 1A1 A200

SOFT CAPS - LANYARD WITH THIN CORD

PANEL MOUNTED RECEPTACLES



Size	A	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



Material

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/IP69 ¹⁾ ; IEC 60529 «V» sealing level: Hermetic: Tested: <10 ⁻⁸ mbar l/sec. ; IEC 60068-2-17 Test Qk, Method 3
Sealing Performance Soft Caps	IP68: 2m/24h; IEC 60529
Operating Temperature Range	-55°C to +135°C ²⁾ ; IEC 60512-6-11 i+; 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-364-09
Vibration, random (Size 08, 11, 13, 18)	37.80 Grms, MIL-STD-202 Method 214A Condition 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 sweep 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.

All dimensions shown are in millimeters and are for reference only. They are subject to change without prior notice.

TECHNICAL DATA

ELECTRICAL DATA

Characteristic	Contact Size	Performance and Standard	
Contact Resistance over 10'000 Mating Cycles	Ø 0.5 mm	5 mΩ	IEC 60512-2-1-2a IEC 60512-2-2-2b
	Ø 0.7 mm	5 mΩ	
	Ø 0.9 mm	4 mΩ	
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		Material		Finish		
		Designation	ISO	Standard	Designation	Standard
Nut, Spring Sleeve (Plug), Shell (Plug)		Aluminium AlMgSiSn1Bi		EN-AW-6023	Chrome over Nickel	SAE-AMS 2460
		Brass CuZn39Pb3		CW614N UNS C 38500		
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		
Ground Contact		Brass CuZn39Pb3		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	- General	FPM (Viton®)		UL 94 V-0		
	- Interface	EPDM		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

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