Fischer UltiMate
Original Series

Technical Specifications



Connect²

Expertise Reliability Innovation











Rugged, Compact, Lightweight Connectors for Harsh Environments

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 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

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



ISO 9001

ISO 13485

ISO 14001



REACH

Edition 2.0

Fischer UltiMate™ Original Series



Introduction to Fischer UltiMate™ Original Series

Product Features



- High shock and vibration resistance
- Operating temperatures: -55°C to +135°C
- 10,000 mating cycles
- Wide range of configurations
- Military standards compliant
- 1'000 hours saltspray resistance

1. Sealing IP68/69K even unmated

- One piece body
- Cable assembly containing epoxy

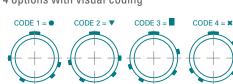
2. EMC 360° high performance shielding

- Grounding contact ring
- Cable assembly design



3. Mechanical and visual coding

- Robust mechanical coding
- 4 options with visual coding



4. Soft sealing caps

- Rugged, IP68 sealing
- Easily installed on plug and receptacle





Cable Assembly Solutions

Fischer Connectors develops innovative complete cable assembly solutions for Fischer UltiMate™ Original Series. Rely on our engineering expertise for your harsh environment applications and order a complete turnkey solution from only one source.



- Durable and reliable overmolding specially designed for severe conditions
- High performance epoxy potting for IP68/69K sealed connectors
- Cable assembly designed for excellent EMC 360°shielding
- Straight and right angle thermoplastic overmolding
- Easy prototyping with Do-It-Yourself cable termination kit

Please contact us for more details on Fischer cable assembly solutions

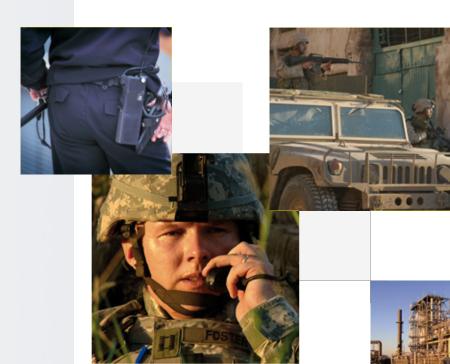
Technical Specification



Introduction to the Fischer UltiMate™ Original Series

Applications

The Fischer UltiMate[™] Original 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.



MIL APPROVED







Fischer UltiMate™ Original Series



Product Range Overview

Plugs

Cable mounted

■ UP01: Short cable plug



Panel mounted

■ UP50: Front mounted panel plug



Receptacles

Panel mounted

■ UR01: Rear mounted low profile receptacle



UR02: Rear mounted receptacle



■ UR03: Front mounted low profile receptacle



Cable mounted

■ UR50: Short cable receptacle



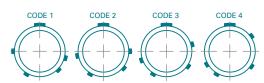
Mechanical Coding

Plua:

■ Size 08



■ Size 11, 13 and 18

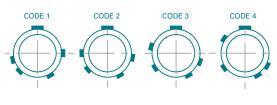


Receptacles

■ Size 08



■ Size 11, 13 and 18



Technical Specifications

Edition 2.0



Part Numbering

Structure

| | Connector Des | sign | | | Contact Bloc | k |
|--|--|---|---|---|---|--|
| arts | | | | | | |
| Body Style | Sealing Level | Locking System | Connector Size | Polarity | Number of Contacts | Contact Type |
| vailable Choices | | | | | | |
| Children Plug = UP Cable Mounted Plug Chort = UP01 Canel Mounted Plug Front mounted = UP50 Children Plug Canel 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 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 08 002, 003, 004, 005, 007, 009 Size 11 012, 016, 019 Size 13 027 Size 18 042 | Solder = S PCB = P Crimp = C |
| | Cable Mounted * Not applicable IP68/69K with Fischer Connectors Cable Assembly Solution | Panel Mounted Not applicable | Size corresponds to Interface Diameter of Plug and Receptacle in mm | Standard Polarity Male Contacts on Plut Female Contacts on Receptacle Inverted Polarity | | |
| | · | | | Female Contacts on P Male Contacts on Receptacle | lug | |
| xamples | | | | | | |
| able Mounted Plugs (L | IP01 to UP49) | | | | | |
| UP0X | | L | 11 | M | 012 | S |
| able Mounted Recepta | icles (UR50 to UR89 | 9) | | | | |
| UR5X | | Z | 11 | F | 012 | S |
| anel Mounted Plugs (L | JP50 to UP99) | | | | | |
| and mountour rago | | | 11 | M | 012 | S |
| UP5X | W | | 11 | 141 | UIZ | 3 |
| | | 9) | | 101 | UIZ | 3 |



Part Numbering

| Hous | sing | | Standard | l Options | |
|--|--|--|--|---|----------------------------------|
| arts | | | | | |
| Housing Color | Keying Code | O-Ring Material | Insulating Material | Grounding | Housing Material |
| vailable Choice | es | | | | |
| ■ Black = BK* ■ Grey = GR | ■ 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 | 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 black Standard guide mark White for Black housing color Red for Grey housing color | Standard keying code 1 Visual coding on plug and receptacle ▼■ * | ** Standard Housing Please contact us for | Material is Brass other o-ring material o | r insulating material | |
| - | Plugs (UP01 to UP | 49) | | | |
| BK | 1 | Z | 1 | Z | В |

| BK | 1 | Z | 1 | Z | В |
|-----------------|--------------------|------------|---|---|---|
| 0.11.88 | No control of tube | a . UDaal | | | |
| Cable Mounted R | eceptacies (UR5 | U to UK89) | | | |
| ВК | 1 | E | 1 | Z | В |
| Panel Mounted P | Plugs (UP50 to UPS | 99) | | | |
| ВК | 1 | Z | 1 | N | В |
| Panel Mounted R | Receptacles (URO | 1 to UR49) | | | |
| ВК | 1 | E | 1 | Α | В |

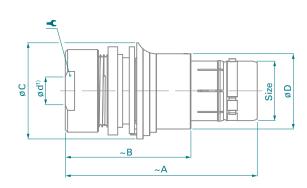
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Dimensions

■ UP01: Short Cable Plug



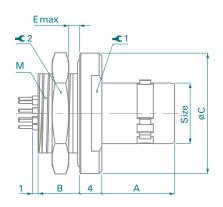


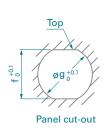
| Size | А | В | øC | øD | ød max | -c | Torque |
|------|------|------|------|------|-----------|-----------|--------|
| 08 | 39.0 | 25.0 | 15.0 | 10.5 | 4.5 | 10 | 1.5 Nm |
| 11 | 39.5 | 26.0 | 18.5 | 13.7 | 7.1 | 12 | 3.0 Nm |
| 13 | 50.0 | 34.0 | 21.7 | 16.0 | 8.7 | 17 | 3.5 Nm |
| 18 | 58.0 | 38.0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

¹⁾ Max. cable diameter below shield.

• UP50: Front Mounted Panel Plug







| 5 | Size | Α | В | øC | E | f | øg | M | = C1 | - C 2 | Torque |
|---|------|-------|------|------|-----|------|------|------|-------------|--------------|--------|
| • | 11 | 13.15 | 7.55 | 21.8 | 4.5 | 14.5 | 16.1 | 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.

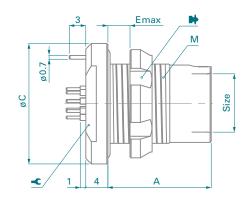
Fischer UltiMate[™] Original Series

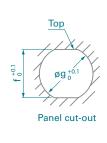


Dimensions

• UR01: Rear Mounted Low Profile Panel Receptacle*



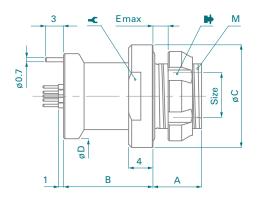


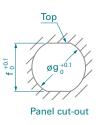


| Size | Α | øC | E | f | øg | M | -c | # | Torque |
|------|------|------|-----|------|------|------|-----------|----------|---------|
| 08 | 18.7 | 16.9 | 5.0 | 10.9 | 12.1 | 12x1 | 15 | TF00.001 | 2.5 Nm |
| 11 | 18.7 | 21.8 | 7.0 | 14.5 | 16.1 | 16x1 | 17 | TK00.002 | 4.5 Nm |
| 13 | 22.5 | 23.8 | 5.5 | 16.5 | 18.1 | 18x1 | 20 | TP00.011 | 6.0 Nm |
| 18 | 29.3 | 31.8 | 7.5 | 23.2 | 25.1 | 25x1 | 27 | TQ00.005 | 10.0 Nm |

• UR02: Rear Mounted Panel Receptacle*







| Size | Α | В | øC | øD | E | f | øg | M | -C | H | Torque |
|------|------|------|------|------|-----|------|------|------|-----------|----------|---------|
| 08 | 8.0 | 14.7 | 16.9 | 14.0 | 4.0 | 10.9 | 12.1 | 12x1 | 15 | TF00.001 | 2.5 Nm |
| 11 | 8.0 | 14.7 | 21.8 | 18.8 | 4.0 | 14.5 | 16.1 | 16x1 | 17 | TK00.002 | 4.5 Nm |
| 13 | 10.5 | 16.0 | 23.8 | 20.0 | 5.0 | 16.5 | 18.1 | 18x1 | 20 | TP00.011 | 6.0 Nm |
| 18 | 11.0 | 22.3 | 31.8 | 26.0 | 5.0 | 23.2 | 25.1 | 25x1 | 27 | TQ00.005 | 10.0 Nm |

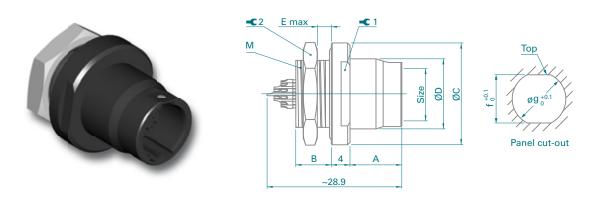
Specifications

^{*} Standard version with PCB contacts and grounding pin.
For solder contact version, special solder ground contact pin is included.



Dimensions

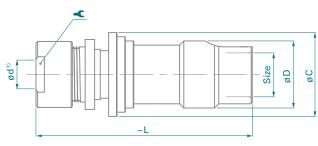
• UR03: Front Mounted Low Profile Panel Receptacle*



| Size | Α | В | øC | øD | Е | f | øg | M | - C1 | ■ C 2 | Torque |
|------|------|-----|------|------|-----|------|------|------|-------------|--------------|--------|
| 08 | 11.7 | 7.0 | 16.9 | 11.5 | 4.0 | 10.9 | 12.1 | 12x1 | 15 | 14 | 2.5 Nm |
| 11 | 11.1 | 7.6 | 21.8 | 15.0 | 4.6 | 14.5 | 16.1 | 16x1 | 17 | 19 | 4.5 Nm |

• UR50: Short Cable Receptacle





| Size | L | øC | øD | ø dmax | -c | Torque |
|------|----|------|------|-----------|-----------|--------|
| 08 | 39 | 15.0 | 12.0 | 4.5 | 10 | 1.5 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.

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

^{*} Standard version with solder contacts



Contact Configurations

| | | | | Wire | Size ²⁾ | РСВ | Current | Rated Vol- | Te: | st Vol | tage [| [kV] on |
|------|------------|--------------------|-----------------------|---|--|-------------------|------------------|----------------|-----------------|--------------------|-----------------|--------------------|
| | | | | | | Contacts | Rating [A] | tage r.m.s [V] | IEC | 60512- | 4-1 Test | t 4a |
| | | | [mi | | | | 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 |
| 08 | | 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 | 8.0 | 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 | 1.4 | 1.5 | 2.0 | 2.2 |
| 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 other standards rule a specific use of the connector, then the application specific safety criteria shall be considered first. This must be evaluated in the frame of equipment engineering.

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



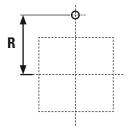
Layout and Pin Numbering





Position of ground pin

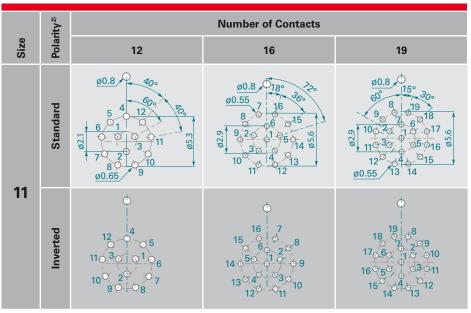
| | F | 3 | | | | | | |
|------|------|------|--|--|--|--|--|--|
| Size | UR01 | UR02 | | | | | | |
| 08 | 6.0 | | | | | | | |
| 11 | 8 | .4 | | | | | | |
| 13 | 9 | .0 | | | | | | |
| 18 | 12.0 | | | | | | | |



Pin layout / PCB hole pattern¹⁾ - View from F

| | ity ²⁾ | | | Number o | f Contacts | | |
|------|------------------------|-------------|---------------|---|---|---|---|
| Size | Polarity ²⁾ | 2 | 3 | 4 | 5 | 7 | 9 |
| | Standard | 00.8 | 120°(3x) 00.8 | 90°(4x) 00.8 1 45° 2 45° 3 00.65 | 90.8 72°(5x) 2 1 36° 3 0 5 4 90.65 | 90.8 60°(6x) 2 7 30° 3 1 6 6 5 90.55 | 90.8 2 9 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 08 | Inverted | ф 1 2 | 3 2 | 1 × × 3 | 0 1 0 2 5 0 3 | 0 2 3 70 1 0 1 0 4 6 5 | 9 2 8 1 3 7 4 6 5 |

Specifications



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 (cont.) - Pin layout / PCB hole Pattern 1) - View from F

| Size | Polarity ²⁾ | Number of Contacts 27 | | Size | Polarity ²⁾ | Number of Contacts 42 |
|------|------------------------|---|--|------|------------------------|--|
| 13 | Standard | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | 18 | Standard | \$\overline{\sigma}\$\ |
| | Inverted | 00.8 1.43 00.55 5 1 0 4 9 7 10 0 0 0 0 0 15 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | Inverted | 90.8 1.6 1.6 1.9 1.6 1.9 1.6 1.6 1.9 1.6 1.6 1.6 1.9 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 |

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

Online Technical Library:

Download our 3D CAD Models www.fischerconnectors.com/technical



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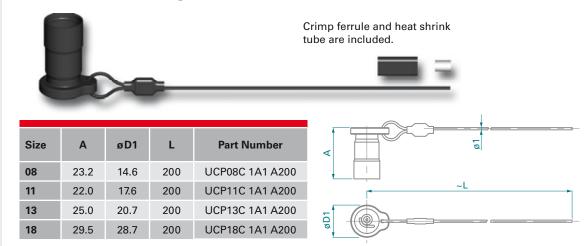
Technical Specifications

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

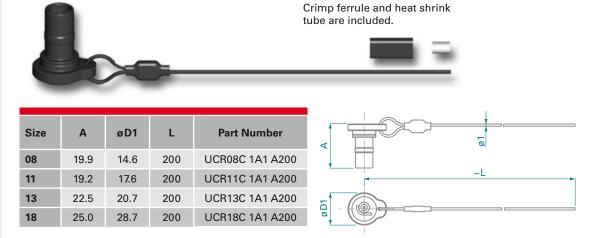


Soft Caps - Lanyard with Nylon Thin Cord

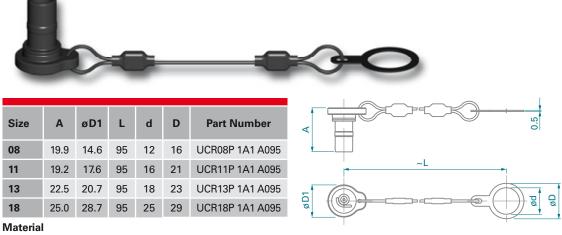
• Cable Mounted Plugs



• Cable Mounted Receptacles



Panel Mounted Receptacles



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

Cord: Nylon

Fixing lug: Black chrome plated brass (ISO CuZn37)

Crimp ferrule: Nickel plated copper

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



Technical Data

Environmental & Mechanical Data

| Characteristic | Performance and Standard | | | | |
|--|---|--------------------------------------|--|--|--|
| Sealing Performance Mated and Unmated | IP68: 2m submersion for 24 hours*; IEC 60529 «W» sealing level IP69K ¹⁾ Hermetic:Tested: <10 ⁻⁸ mbar l/sec. ²⁾ ; IEC 60068-2-17Test Qk, Method 3 «V» sealing level | | | | |
| Operating Temperature Range | -55°C to +135°C ³⁾ IEC 60512-6-11 i+j; IEC 60068-2-14-Nb | | | | |
| Corrosion Resistance | Salt mist, 1000 hours ⁴⁾ , 5% salt solution, 35°C IEC 60068-2-11Test Ka; MIL-STD-202 Method 101; EIA-364-26 | | | | |
| Endurance | 10'000 mating cycles IEC 60512-5-9a; EIA-364-09 | | | | |
| Vibration, random | 37.80 Grms, MIL-STD-202 Method 214A Condition I; EIA-364-28 Condition V | | | | |
| Shock | 300 g amplitude, half sine pulse of 3 ms, no discontinuity > 1 µs | MIL-STD-202 Method 213 EIA-364-27 | | | |

¹⁾ Dust tight, protected against the effects of the high-pressure liquids. The test requirements for IP69K exist only in DIN 40050-9, the German version of IEC 60529.

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 | $\begin{array}{l} \text{5 m}\Omega \\ \text{5 m}\Omega \\ \text{4 m}\Omega \end{array}$ | IEC 60512-2-1-2a IEC 60512-2-2-2b | | |
| Insulation Resistance | | > $10^{10} \Omega$; IEC 60512-3-1-3a | | | |
| Shielding Effectiveness 5) | - Grey - Black | > 65 dB (excellent) > 55 dB (very good) | up to 1 GHz, IEC 60512-23-3 | | |

⁵⁾ Size 08 connector pair.

Material & Surface Treatments

| Metal Parts | | Mat | terial | Finish | | |
|-------------------------|---|---|--|-------------------------|-------------------------------------|--|
| | | Designation ISO | Standard | Designation | Standard | |
| Housing, Nut | | Aluminium AlMgSiSn1Bi | EN-AW-6023 | Chrome over | SAE-AMS 2460 | |
| | | Brass CuZn39Pb3 | CW614N UNS C 38500 | Nickel | | |
| Back Nut (Plug) | | Aluminium AlMgSiSn1Bi | EN-AW-6023 | Nickel | SAE-AMS-QQ-N-29 SAE-AMS 2404 | |
| | | Brass CuZn39Pb3 | CW614N UNS C 38500 | Nickei | | |
| Ground Contact | | Brass CuZn39Pb3 | CW614N UNS C 38500 | Nickel | SAE-AMS-QQ-N-29 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 | UL 94 V-0 | | | |
| Inner Sleeve | - Cable connectors | POM | UL 94 HB | | | |
| O-rings | - General - Interface | FPM (Viton®) EPDM | 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 | | | |

^{*} Please contact your local sales office for other requirements.

Technical Specifications

 $^{^{2)}}$ Only vacuum sealed receptacles (See Part Numbering page 6, "V" sealing level).

 $^{^{3)}}$ 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.

⁴⁾ Preserved mechanical and electrical functionalities, connector in mated condition and with caps in unmated position.

Fischer sales network

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