Fischer MiniMax™
Series

Connect²
Expertise | Reliability | Innovation

Cable Specifications

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Edition 3.5
Introduction

Connect2 Innovation

The Fischer MiniMax™ Series increases the performance of your ruggedized devices, handling more mixed signal and power connections, while saving money, space and weight. This innovative, first to market, high-density miniature solution uses proven industry pin socket technology.

The Fischer MiniMax™ Series is available as standalone connector or as a complete pre-cabled solution with overmolding and protection caps. Choose push-pull, quick release or screw lock connections.

This brochure gives an overview of the different cables Fischer Connectors is currently offering for the Fischer MiniMax™ Series.

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NOTE
As of the end of April 2013, production of the straight wire cable has transitioned to the 20 Color. Pre-cabled units with the 14 Color may still be available.
19-Way Twisted pair cable (Datacom)

1. STRAIN CORD (CENTER)
   Kevlar (10kgf breaking strain)

2. WIRES A
   2 x 2 x 42/0.10mm (22AWG)
   PLAIN COPPER ISOLATED TPE

3. WIRES B
   3 x 2 x 7/0.127mm (28AWG)
   1 x 7/0.127mm (28 AWG)
   PLAIN COPPER ISOLATED TPE

4. WIRES C
   4 x 2 x 7/0.127mm (28 AWG Cat 6A)
   PLAIN COPPER ISOLATED TPE

5. Separators
   Nonwoven tape and ALU-foil overlapping wrapped

6. Screen
   Tinned copper wrapping, overlap 90%

7. SHEATH
   Black PUR

Product Specification

Conductors A 2 x 2 x 42/0.10mm (22AWG)
Core colors Violet, grey-pink, red-blue, white-green
Conductors B 3 x 2 x 7/0.127mm (28AWG) + 1 x 7/0.127mm (28AWG)
Core colors blue/red, grey/pink, yellow/green, black
Conductors C 4 x 2 x 7/0.127mm (28AWG Cat 6A)
Core colors White numbered 1-4, blue, orange, green, brown
Centre Kevlar (10kg breaking strain)
Screen Tinned copper wrapping, overlap 90%
Sheath PUR Black
UV resistance Yes
Dia. over Sheath 6.5mm±0.2
Color Black
Finish Matt
ROHS-Compliant Yes
Test voltage 600V
Operating voltage 250V
Weight 59kg/km
Impedance 100+/- 10Ω (AWG28)
           125Ω +/-20% (AWG 22)

This information is confidential and only intended for the person to whom it is addressed.
24-Way Twisted pair cable (Datacom)

1. STRAIN CORD (CENTER)
   Kevlar (10kgf breaking strain)

2. WIRES A
   4 x 42/0.10mm (22AWG) PLAIN COPPER ISOLATED TPE

3. WIRES B
   10 x 2 x 7/0.10mm (30AWG) PLAIN COPPER ISOLATED TPE

4. Separators
   Nonwoven ribbon

5. Screen
   Tinned copper wire braid, overlap 90%

6. SHEATH
   Black PUR

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**Product Specification**

| Conductors A | 4 x 42/0.10mm (22AWG) |
| Core colors  | Red, blue, green, yellow |
| Conductors B | 10 x 2 x 7/0.10mm (30AWG) |
| Core colors  | black, violet, pink / grey, white / grey, brown / grey, brown / pink, white / pink, brown, red, blue, brown / green, white / yellow, brown / yellow, white, yellow, green, pink, grey, red / blue, white / green. |
| Centre       | Kevlar (10kg breaking strain) |
| Screen       | Tinned copper wire braid, overlap 90% |
| Sheath       | Halogen Free PUR |
| UV resistance| Yes |
| Dia. over Sheath | 6.7mm |
| Color        | Black |
| Finish       | Matt |
| ROHS-Compliant| Yes |
| Operating voltage | 250V |
| Test voltage | 500V |
| Insulation resistance | 20MΩ/km at 20°C |
| Weight       | 56kg/km |
| Impedance    | 125Ω +/- 20% |
| Diaphony     | > 1 MHz |

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