



SIGNAL CABLE BY THE METRE & M12 CONNECTORS

To Assemble Cables of Various Lengths as Needed

GENERAL SPECIFICATIONS

Signal Cable

- · Number of conductors
- · Wire colors
- Overall twist
- · Optical shield covering
- Shielding
- Minimum bending radius
- Nominal voltage conductor
- Conductor cross section
- Nominal capacitance

Conductor to conductor

Conductor to shield

- External cable diameter
- Outer jacket material
- Conductor insulation
- Conductor material
- Insulation resistance
- · Conductor resistance
- Temperature range

Operating and storage

- Flame resistance
- Halogen-free
- Resistance to oil

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Brown, white, blue, black

4 twisted wires

80%

Tinned copper braided shield

25 mm [1 in.]

< 300 V

4 x 0.34 mm² [AWG 22]

≤ 80 pF/m

≤ 135 pF/m

 $4.95 \text{ mm} \pm 0.2 \text{ mm} [195 \pm 8 \text{ mils}]$

Polyurethane (PUR)

Polypropylene (PP)

Bare Cu litz wires

> 100 GΩ*km (at 20°C [68°F])

Max. 58 Ω/km (at 20°C [68°F])

-25 to 80°C [-13 to 176°F]

In accordance with UL FT-2

In accordance with DIN VDE 0472 Part 815 & DIN EN

50267-2-1

In accordance with DIN EN 60811-2-1







M12 Connectors - Common Specifications to All Models

- · Rated current
- Conductor cross-section (min...max)
- Temperature range

Operating and storage

- · Degree of protection
- · Contact material
- Contact surface material

4 A (at 40°C [104°F]) 0.14 to 0.34 mm2 [AWG 26 to AWG 22]

-25 to 80°C [-13 to 176°F]

IP65

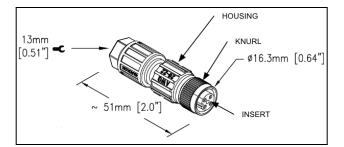
①②: Cu/Sn, ③④: Cu/Zn

12: Ni/Au, 34: Au

125 Vac / 125 Vdc

1 M12 Unshielded, Straight Connector (Female Type) - VSM-M12FSC

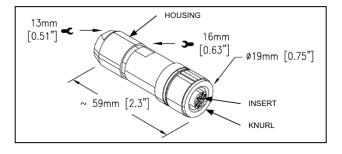
- · Number of positions
- Connection type
- Knurl material
- · Housing material
- · Insert material
- Rated voltage



4
Female QUICKON™ fast connection
Zinc die-cast, nickel-plated
Polyamide (PA 6.6)
Thermoplastic polyurethane (TPU)

2 M12 Shielded, Straight Connector (Female Type) - VSM-M12FSSC

- Number of positions
- Connection type
- Knurl material
- Housing material
- Insert material
- · Rated voltage



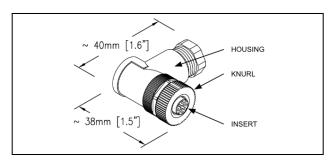
Push-lock spring connection Zinc die-cast, nickel-plated Zinc die-cast, nickel-plated Polyamide (PA 6.6) 48 Vac / 60 Vdc





③ M12 Unshielded, Right-Angle Connector (Female Type) - VSM-M12FAC

- · Number of positions
- · Connection type
- Knurl material
- · Housing material
- Insert material
- Rated voltage



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Spring clamp Brass (CuZn)

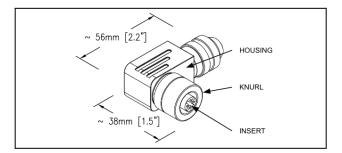
Polybutylene terephthalate (PBT)

Polyamide (PA)

60 Vac / 60 Vdc

4 M12 Shielded, Right-Angle Connector (Female Type) - VSM-M12FSAC

- · Number of positions
- · Connection type
- Knurl material
- · Housing material
- Insert material
- Rated voltage



4
Screw locking
Zinc die-cast, nickel-plated
Zinc die-cast, nickel-plated
Polyamide (PA)
125 Vac / 125 Vdc

PRODUCT INFORMATION

Product Number	Description
VSM-CBL-4CSZH22-M	Cable / 4 conductors shielded "Zero-Halogen" - AWG 22 (m)
VSM-CBL-4CSZH22-300M	Cable / 4 conductors shielded "Zero-Halogen" - AWG 22 (300 m spool)
VSM-M12FSC	M12 Mating straight connector (fem. type, unshielded)
VSM-M12FSSC	M12 Mating straight connector (fem. type, shielded)
VSM-M12FAC	M12 Mating angled connector (fem. type, unshielded)
VSM-M12FSAC	M12 Mating angled connector (fem. type, shielded)

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