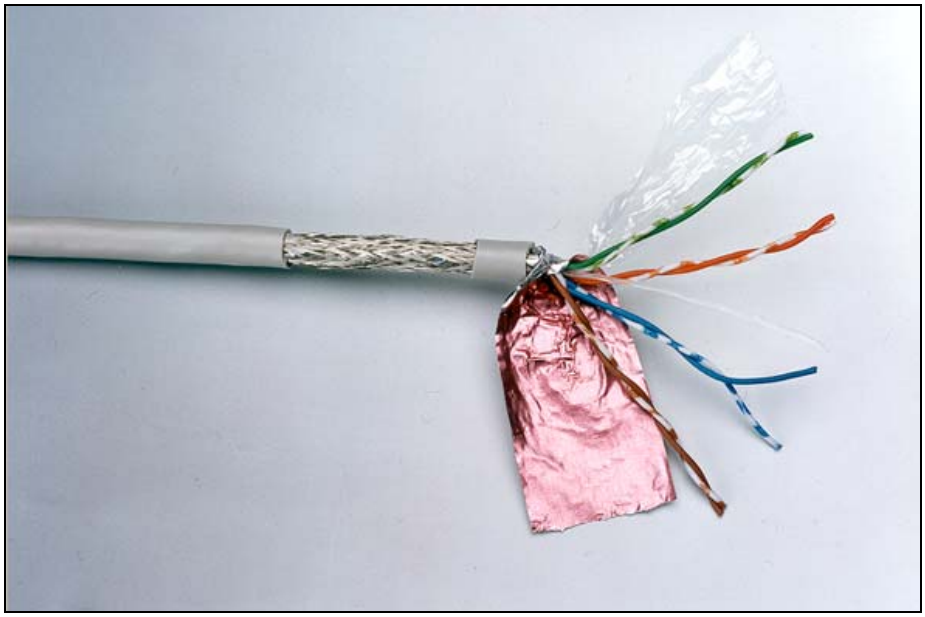
Giga SFTP Horizontal Cable

Features



- 100-ohm, foiled and braid-shielded horizontal cable
- Four twisted pairs
- Halogen-free, flame-retardant (HFFR) or PVC jacket
- Conforms to ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 5e/Class D
- Figure-8 construction available

Giga SFTP Horizontal Cable

Description

The Giga SFTP Horizontal Cable is a 100-ohm, foil and braid-shielded cable for indoor installations. The cable is housed in a halogen-free, flame-retardant (HFFR) or PVC jacket with a polyester-aluminum foil and tin coated copper braid shield, and includes four twisted pairs wrapped together with plastic tape. The cable conforms to ISO/IEC IS 11801 Category 5e requirements for Class-D applications. To facilitate running two cables to a single point, the cable is also available in a figure-8 configuration.

Giga SFTP Horizontal Cable
Specifications

Construction

- **Basic Wires**
  Conductor: eight wires, solid, bare copper, 0.5mm (24 AWG)
  Insulation: solid polyolefin, 1.08±0.02mm OD.

- **Pair Construction**
  Four pairs cabled and wrapped together with plastic tape.

- **Pair Color Codes (2 wires/pair)**
  Blue/white-blue, orange/white-orange, green/white-green, brown/white-brown.

- **Overall Shield**
  Inner foil shield: polyester-aluminum foil (metal face inward, providing 100% coverage) Outer braid shield: tin coated copper braid, providing 51% coverage. The cable does not contain a drain wire.

- **Overall Diameter**
  6.2mm nominal, 6.5mm max.

- **Outer Sheath**
  HFFR
  Halogen-free, flame retardant (HFFR) compound, colored light gray RAL 7032, with black printing.
  PVC
  PVC compound, colored light gray RAL 7035, with black printing.

Printing
HFFR
RiT R3729030 SFTP CABLE 100-ohm CATEGORY 5 4x2x24 AWG SFTP HFFR [ ] METER [+ Batch No.]
PVC
RiT R3729130 SFTP CABLE 100-ohm CATEGORY 5 4x2x24 AWG SFTP [ ] METER [+ Batch No.]
Figure-8
RiT R3727130 SFTP CABLE 100-ohm CATEGORY 5 FIG.-8 2x(4x2x24) AWG SFTP [ ] METER [+ Batch No.]

Giga SFTP Horizontal Cable
Specifications

Electrical

- **DC Resistance**
  Max. 93.8 ohm/km max. at 20°C
- **Resistance Unbalance**
  3% max. at 20°C
- **Mutual Capacitance**
  50±5 pF/m nominal at 1 KHz
- **Capacitance Unbalance**
  3300 pF/km max. at 1 KHz
- **Impedance**
  100±15 W at 1 to 100 MHz
- **Voltage Rating**
  60 Vrms
- **Dielectric Strength**
  700 VAC/one minute
- **Transfer Impedance (Zt) (Shielding Effectiveness)**
  20 mW/m max. at 1 MHz
  50 mW/m max. at 10 MHz
- **Velocity of Propagation**
  68% nominal
- **Propagation Delay**
  5.7 nS/m max @ 1 MHz
  5.4 nS/m max @ 10 MHz
  5.3 nS/m max @ 100 MHz
- **Propagation Delay Skew**
  20 nS/100 m max @ 1-100 MHz

Giga SFTP Horizontal Cable
Specifications

Transmission Parameters

Frequency	Attenuation dB/100m	Near End Crosstalk (NEXT) Loss dB	ACR dB/100m	Structural MHz Return Loss (SRL) dB
1	2.01	70	68	23
4	4.06	60	56	23
10	6.25	55	49	23
16	8	52	44	23
20	8.7	50	41	23
31.25	10.9	48	37	21
62.5	15.8	43	27	18
100	19.5	41	21	16

Giga SFTP Horizontal Cable
Specifications

General

- **Installation Temperature**
  0° to 50°C (32° to 122°F)
- **Operating Temperature**
  20° to 60°C (4° to 140°F)
- **Bending Radius (min.)**
  50 mm during installation
  24 mm during operation
- **Flammability Test**
  IEC 332-1 / UL 1581 VW-1
- **Weight**
  50 kg/km, nominal
- **Pulling Strength**
  92 N max.
- **Breaking Strength**
  200 N min.