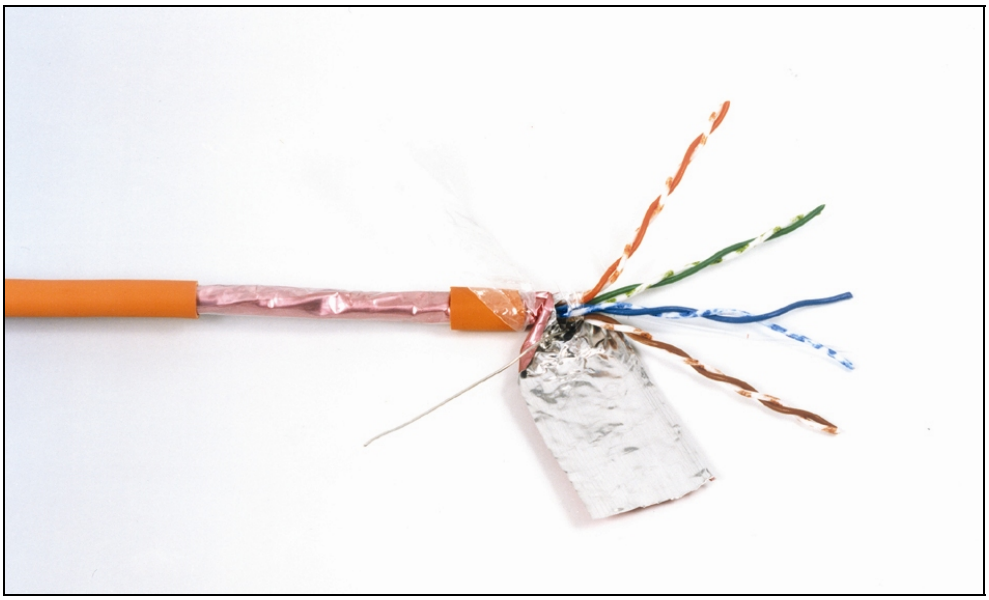
Giga FTP Horizontal Cable

Features



- 100 Ohm, foil-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 FTP Horizontal Cable

Description

Giga FTP Horizontal Cable is a 100W, foil-shielded cable for indoor installations. The cable is housed in a halogen-free, flame-retardant (HFFR) or PVC jacket with a polyester-aluminum foil shield, and includes four twisted pairs wrapped together with plastic tape. The cable conforms to ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 5e/Class D. To facilitate running two cables to a single point, the cable is also available in a figure-8 configuration.

Giga FTP Horizontal Cable

Specifications

Construction

- **Basic Wires**
  Conductor: eight wires, solid bare copper, 0.5 mm (24 AWG)Insulation: skin-foam-solid polyolefin, 1.08±0.02 mm 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**
  Polyester-aluminum foil (metal face inward, providing 100% coverage), laid in close contact with a solid, 24 AWG, tin-plated copper drain wire

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

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

- **Printing**
  HFFR
  RiT R3729010 FTP CABLE 100 OHM CATEGORY 5 4x2x24 AWG FTP HFFR [ ] METER [+ Batch No.]
  PVC
  RiT R3729110 FTP CABLE 100 OHM CATEGORY 5 4x2x24 AWG [ ] METER [+ Batch No.]
  Figure-8
  RiT R3727110 FTP CABLE 100 OHM CATEGORY 5 FIG.-8 2x(4x2x24) AWG [ ] METER [+ Batch No.]

Giga FTP Horizontal Cable

Specifications

SMART GIGA WARRANTY

5e

Electrical

- **DC Resistance**
  Max. 93.8 W/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)
  50 mW/m max. at 1 MHz
  100 mW/m max. at 10 MHz
- **Velocity of Propagation**
  66-68% 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 FTP Horizontal Cable

Specifications

SMART GIGA WARRANTY

5e

Transmission Parameters

Frequency MHz	Attenuation dB/100m	Near End Crosstalk (NEXT) Loss dB	ACR dB/100m	Structural Return Loss (SRL) dB
1	2.01	62	60	23
4	4.06	53	49	23
10	6.25	47	41	23
16	8	44	36	23
20	8.7	42	34	23
31.25	10.9	40	29	21
62.5	15.8	35	19	18
100	19.5	42	12	16

Giga FTP 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.)**
  48 mm during installation
  24 mm during operation
- **Flammability Test**
  IEC 332-1 / UL 1581 VW-1
- **Weight**
  45 kg/km, nominal
- **Pulling Strength**
  92 N max.
- **Breaking Strength**
  200 N min.