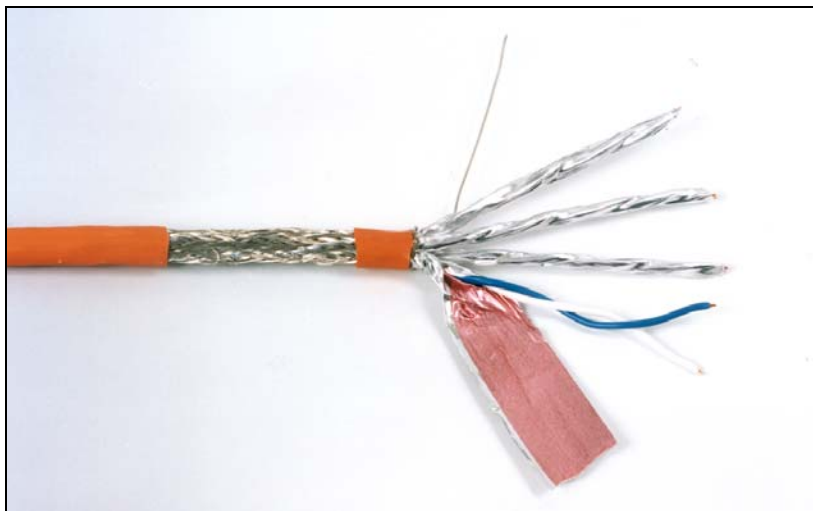


## Cat 7 600 MHz STP Horizontal Cable

### *Features*

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- 100 ohm, foiled and shielded horizontal cable
- Four individually foiled twisted pairs with an overall braid-shield
- Very high performance, designed to support protocols running at up to IEEE 802.3an 10Gbps, 1000 Mbps, such as ATM 622 Mbps and Gigabit Ethernet.
- Specified up to 600 MHz
- Conforms to Category 7 cables specification as per IEC 61156-5 standard
- Halogen-free, flame-retardant (HFFR) or PVC jacket

## **Cat 7 600 MHz STP Horizontal Cable**

### ***Description***

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The Cat-7 STP Horizontal Cable is a 100 W, double-shielded cable, designed for very high data rates for indoor installations. The cable is housed in a gray Halogen-free, flame-retardant (HFFR) or PVC jacket with a braided shield, and includes four individually shielded twisted pairs. The cable conforms to the ISO/IEC 11801 definition of Cat 7 cables as specified in IEC 61156-5 and 61156-6 for CLASS F link and CENELEC EN-50173 drafts. It has been tested up to 600 MHz. The system is designed to support protocols running at up to IEEE 802.3an 10Gbps, 1000 Mbps, such as ATM 622 Mbps and Gigabit Ethernet.

## Cat 7 600 MHz STP Horizontal Cable

### *Specifications*

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#### Construction

- **Basic Wires**  
Conductor: eight wires, bare copper, 0.58 mm OD (23 AWG)  
Insulation: skin foam, polyolefin, 1.43 mm OD
- **Pair Construction**  
Four pairs, each pair wrapped in polyester-aluminum foil (metal face outward), providing 100% coverage
- **Pair Color Codes (2 wires/pair)**  
Blue/white, orange/white, green/white, brown/white
- **Pair Arrangement**  
Four pairs cabled together
- **Overall Shield**  
Tinned-copper braid (providing 51% coverage minimum)
- **Overall Diameter**  
7.6 mm nominal, 8.1 mm max
- **Outer Sheath**  
**HFFR**  
Halogen-free, flame retardant (HFFR) compound, colored light gray RAL 7032, with black printing  
**PVC**  
SR PVC compound, colored light gray RAL 7035, with black printing
- **Printing**  
**HFFR**  
RiT R3729040 STP CABLE 100 OHM CATEGORY 7 4xF (2x23 AWG) S/STP HFFR [ ]  
METER [+Batch No.]  
**PVC**  
RiT R3729140 STP CABLE 100 OHM CATEGORY 7 4xF (2x23 AWG) S/STP [ ] METER  
[+Batch No.]

## Cat 7 600 MHz STP Horizontal Cable

### *Specifications*

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#### Electrical

- **DC Resistance**  
Max. 82 W/km at 20°C
- **Resistance Unbalance**  
3% max. at 20°C
- **Mutual Capacitance**  
43 pF/m nominal at 1 KHz
- **Capacitance Unbalance**  
1500 pF/km max. at 1 KHz (wire to ground)
- **Impedance**  
100 ± 15 W at 1 to 100 MHz
- **Voltage Rating**  
30 Vrms
- **Dielectric Strength**  
700 VAC/one minute
- **Transfer Impedance (Zt) (Shielding Effectiveness)**  
5 mW/m max. at 1-10 MHz
- **Velocity of Propagation**  
79-80% nominal
- **Propagation Delay**  
4.7 nS/m max @ 1 MHz  
4.6 nS/m max @ 10 MHz  
4.6 nS/m max @ 100 MHz
- **Propagation Delay Skew**  
15 nS/100 m max @ 1-600 MHz

# Cat 7 600 MHz STP Horizontal Cable

## *Specifications*

### Transmission Parameters

Frequency MHz	Attenuation dB/100m		Near End Crosstalk (NEXT) Loss dB		ACR dB/100m		Structural Return Loss (SRL) dB
	Nom.	Max.	Nom.	Min.	Nom.	Min.	
1	1.7	1.9	105	90	103	88.1	23
4	3.3	3.6	105	90	102	86.4	23
10	5.2	5.8	105	90	100	84.2	23
16	6.7	7.4	105	90	98	82.6	23
20	7.5	8.3	105	90	97	81.7	23
31.25	9.5	10.4	105	90	95	79.6	21
62.5	13.3	14.6	105	90	92	75.4	18
100	17.5	18.4	105	90	87	71.6	16
175	23.1	24.3	100	90	76	65.7	13.6
200	24.2	26.2	100	90	75	63.8	13
300	31	32	95	80	64	57.9	12
600	42.5	49	90	80	47	31	8.2

## Cat 7 600 MHz STP Horizontal Cable

### *Specifications*

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#### General

- **Storage Temperature**  
-30° to 70°C (22° to 158°F)
- **Operating Temperature**  
-5° to 50°C (23° to 122°F)
- **Bending Radius (min.)**  
100 mm during installation  
30 mm during operation
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
73 kg/km, nominal