

GIGADOR Junior Cat 7 600 MHz DATA Cable
Shielded 4x(2x23 AWG STP)
Teldor P/N 9928654XXX

GENERAL CONSTRUCTION

This is a 100 Ohm double-shielded data cable, designed for high data-rates and tested up to 600 MHz.

This cable conforms to the IEC 61156-5 Cat7, Cat6, and Cat5e requirements.

The cable contains 4 individually shielded twisted pairs, cabled, overall braid shielded and jacketed with grey HFFR jacket for indoor use.

DETAILED CONSTRUCTION:**1. Basic Wires:**

- 1.1. Conductor : Bare copper, 23 AWG.
- 1.2. Insulation: SFS PO, 1.43 mm nom.
- 1.3. Number of basic wires: 8.

2. Pairs Construction:

- 2.1. Total number of pairs: 4.
- 2.2. Color code : White x Blue, White x Orange
White x Green, White x Brown
- 2.3. Individual shield:
Each pair is wrapped with a polyester-aluminum foil (foil face out) providing 100% coverage.

3. Pair Arrangement:

The four pairs are cabled together around a solid TC drain-wire.

4. Overall Shield:

Tinned copper braid, providing 55% coverage min.

5. Overall jacket:

- 5.1. Material: FR-LSZH compound.
- 5.2. Color : per request.
- 5.3. Marking : per request, otherwise TELDOR standard marking.
- 5.4. Overall diameter: 8.4 mm. nom.

6. Physical Properties:

- 6.1. Total weight: 61 Kg/Km, nom.
- 6.2. Storage Temp. Range : -30 to +70C.
- 6.3. Installation Temp. Range : -5 to +50C.
- 6.4. Flame Test: UL VW-1, and IEC 60332-1.
- 6.5. Caloric Value : 690 Kj/m nom.
- 6.6. Min. Bend radius: 10xD mm. during installation.
8xD mm. Permanent.
- 6.7. Pulling force: 130 N max. during installation.

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**S/STP 600 MHz Horizontal Cable GIGADOR JUNIOR 23 AWG
CATEGORY 7 per IEC 61156-5 & ISO/IEC 11801 class F**

| Frequency MHz | Attenuation dB/100m | | NEXT Loss dB | | RL [dB] | |
|---------------|---------------------|-----------|--------------|-----------|---------|-----------|
| | Max | CAT 7 Max | Min. | CAT 7 Min | Min. | CAT 7 Min |
| 4 | 3.6 | 3.7 | 85 | 78 | 24 | 23 |
| 10 | 5.8 | 5.9 | 85 | 78 | 27 | 25 |
| 16 | 7.4 | 7.4 | 85 | 78 | 27 | 25 |
| 20 | 8.3 | 8.3 | 85 | 78 | 27 | 25 |
| 31.25 | 10.4 | 10.4 | 85 | 78 | 25 | 23.6 |
| 62.5 | 14.6 | 14.9 | 85 | 75 | 23 | 21.5 |
| 100 | 18.4 | 19 | 85 | 72 | 23 | 20.1 |
| 200 | 26.2 | 27.5 | 83 | 68 | 20 | 18 |
| 300 | 32.1 | 34.2 | 80 | 65 | 20 | 17.3 |
| 600 | 49 | 50.1 | 80 | 61 | 20 | 17.3 |

DC Resistance 80.0 Ohm/Km max @ 20C
 Resistance unbalance 2% max
 Char. Impedance 100 Ohm ± 15% @ 1-600 MHz
 Voltage rating 60 V rms
 Dielectric strength 700 Volts ac/1 minute min
 Velocity of Propagation 79-80% nominal
 Transfer Impedance 5 mOhm/m max @ 1-10 MHz
 Capacitance Unbalance 1.2 pF/m max @ 1 KHz

Propagation Delay 5.3 nS/m max @ 1 MHz
 5.0 nS/m max @ 10 MHz
 5.0 nS/m max @ 100-600 MHz

Propagation Delay Skew 15 nS/100 m max @ 1-600 MHz
 Insulation Resistance 152 MOhm•Km min @ 500 Vdc, 20C

Prepared By: Prepared By: Jacob Ben-Ary

Revised By: Revised By: Jacob Ben-Ary

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