



Our Category 7 indoor 10G (S/FTP) high performance data communications cable has voice, data, video and security capabilities and is ideal for a network installation. This cable is designed for indoor type installations. Our Category 7 cable has 4 pairs of 23AWG solid bare copper conductors, individually shielded pairs with an overall TC braiding, and a PVC CMR Riser rated jacket. Our bulk cable is supplied on a 1000ft wooden spool and is marked in descending order so you always know how much cable is left.

#### Applications

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps And 622-Mbps ATM
- Other High-Performance Applications
  - Backbone
  - Floor-To-Floor Backbone

#### Compliance

- ISO/IEC 61156-5;EN 50288-4, YD/T1019
- TIA/EIA-568-C.2 Category 7
- RoHS Compliance For The Requirement Of European Union Issued Directive 2002/95/EC

#### Physical Characteristics

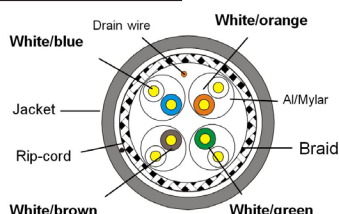
- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: Skin-Foam-Skin Polyethylene
- Insulation Diameter:  $1.330 \pm 0.05\text{mm}$
- Number Of Conductors: 8 Conductors / 4 Pairs
- Inner Pair Shielding: AL/Mylar
- Outer Shield Material: TC Braiding
- Drain Wire: TC 0.45 mm
- Outer Jacket Material: PVC CMR Riser Rated
- Outer Jacket Diameter:  $7.5\text{mm} \pm 0.5\text{mm}$
- Outer Jacket Rip Cord: Yes

## CAT 7 10Gig Indoor Solid Dual Shielded Bulk Cable

# CAT7



#### Technical Diagram



#### Available Jacket Colors

- Gray Item# C7SS-223RG
- Blue Item# C7SS-1659RB
- White Item# C7SS-1660RW

#### Cable Features

- Meets or Exceeds CAT 7 T568C.2 Standards
- Easy to Use Wooden Spool
- Extra Headroom Provides Room for Growth
- Low Attenuation and Power-Sum Crosstalk

#### Construction Facts

- The PVC Cable Has High Density Polyethylene Insulation
- AL Shielding is Used to Eliminate any Interference
- Longitudinal Rip Cord for Easy Jacket Opening

#### Cable Put-Ups:

Cable is supplied in 1000ft increments on a wooden spool.

### CAT 7 10Gig Solid Bulk Cable Electrical Specifications

Frequency MHz (Maximum)	ATT dB/100 m (328 ft.) (Maximum)	ACR dB/100 m (328 ft.) (Maximum)	DELAY ns/100 m (328 ft.) (Minimum)	NEXT dB/100 m (328 ft.) (Minimum)	PS-NEXT dB/100 m (328 ft.) (Minimum)	ELFEXT dB/100 m (328 ft.) (Minimum)	PS-ELFEXT dB/100 m (328 ft.) (Minimum)	Return Loss dB (Minimum)
1	N/A	N/A	570.0	78.0	75.0	78.0	75.0	20.0
4	3.74	N/A	552.0	78.0	75.0	78.0	75.0	23.0
8	5.24	N/A	546.7	78.0	75.0	75.9	72.9	24.5
10	5.86	N/A	545.4	78.0	75.0	74.0	71.0	25.0
16	7.41	N/A	543.0	78.0	75.0	69.9	66.9	25.0
20	8.29	N/A	542.0	78.0	75.0	68.0	65.0	25.0
25	9.29	N/A	541.2	78.0	75.0	66.0	63.0	24.3
31.25	10.41	N/A	540.4	78.0	75.0	64.1	61.1	23.6
62.50	14.88	N/A	538.6	75.5	72.5	58.1	55.1	21.5
100	19.02	N/A	537.6	72.4	69.4	54.0	51.0	20.1
150	23.56	N/A	536.9	69.8	66.8	50.2	47.2	18.9
200	27.47	N/A	536.5	67.9	64.9	48.0	45.0	18.0
250	30.97	N/A	536.3	66.4	63.4	46.0	43.0	17.3
300	34.19	N/A	536.1	65.2	62.2	44.5	41.5	17.3
600	50.10	N/A	535.5	60.7	57.7	38.4	35.4	17.3
700	54.63	N/A	535.4	59.7	56.7	37.1	34.1	14.2
1000	66.93	N/A	535.1	57.3	54.4	34.0	31.0	13.1

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## CAT 7 10Gig Indoor Solid Dual Shielded Bulk Cable

### Pair Color Code Chart

- Pair 1 — White & Blue
- Pair 2 — White & Orange
- Pair 3 — White & Green
- Pair 4 — White & Brown

### Mechanical Characteristics

- Installation Temperature Range: -40°C~+60°C
- Operating Temperature Range: -40°C~+60°C
- Storage Temperature Range: -30°C ~ +60°C
- Bulk Cable Weight: 44 lbs. / 1000FT
- Max. Recommended Pulling Tension: N/A
- Min. Bend Radius/Minor Axis: N/A
- Min. Bend/Installation: N/A
- Test Object: Jacket
- Test Material: PVC/CMR
- Before Tensile Strength:  $\geq 13.5$ 
  - Aging Elongation:  $\geq 150\%$
  - Aging Condition: 100°C x 24hrs x 7Days
- After Tensile Strength:  $\geq 12.5$ 
  - Aging Elongation:  $\geq 125\%$
  - Cold Bend: No Visible Cracks (-20°±2°x4h)

Sequential foot markers on jacket.

### Electrical Characteristics

- Unbalanced To Ground Capacitance Max:  $\leq 330$  (pF/100m)
- Nominal Velocity Of Propagation: 74%
- Maximum Delay: 535.5 @ 600MHz (ns/100m)
- Maximum Delay Skew:  $\leq 25$  (ns/100m)
- Maximum Conductor DC Resistance: 9.5 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V RMS
- Maximum DCR Unbalanced: 2% (@ 20°C)
- Attenuation (Maximum)
  - 34.19dB/100m (328.1ft.) @ 300MHz
  - 50.10dB/100m (328.1ft.) @ 600MHz
- 1.0 - 100MHz Impedance:  $100 \pm 15\Omega$
- 100 - 250MHz Impedance:  $100 \pm 18\Omega$
- 250 - 600MHz Impedance:  $100 \pm 25\Omega$
- NEXT (Minimum)
  - 65.2dB/100m (328.1ft.) @ 300MHz
  - 60.7dB/100m (328.1ft.) @ 600MHz
- PS-NEXT (Minimum)
  - 62.2dB/100m (328.1ft.) @ 300MHz
  - 57.7dB/100m (328.1ft.) @ 600MHz
- Return Loss (Minimum)
  - 17.3dB/100m (328.1ft.) @ 300MHz
  - 17.3dB/100m (328.1ft.) @ 600MHz

### Optional All-In-One Stripping Tool

This tool can strip coax, CAT 3, CAT 4, CAT 5, CAT 5e, CAT 6, CAT 6A, CAT 7, CAT 7A, shielded, plenum or PVC as well as round telephone, audio cables and single and multi-mode fiber-optic cable. The system includes preset coax blades, cable & wire cutter, braid comb and adjustable stripper for twisted pair and audio cable jacket stripper.



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