

CAT 7A S/FTP LAN CABLES

Category 7A S/FTP 1000MHz LAN Cables

Canovate CAT 7A S/FTP LAN Data Cable is an enhanced performance cable used for transmission of high speed data, digital and analogue voice and video RGB signals on LANs. It supports Gigabit Ethernet (40G BASE-T) standard and operates at bandwidths up to 1000 MHz.



23 AWG

1000 MHz

Product Application

- All Ethernet applications which includes
- 10 Base T (IEEE 802.3)
- 100 Base T (IEEE 802.3U)
- 100 Vg-Any LAN (IEEE 802.12)
- Token ring (IEEE 805.5)
- TP-PMD (ANSI X3T9.5)
- ATM 155
- 40G BASE-T Gigabit Ethernet
- Voice, Data, CATV & All sharing application up to 1000 MHz
- Applicable for power over ethernet POE/ POE+ /4PPoE up to 100W.

Product Benefits

The cable supports gigabit Ethernet protocol for installation in horizontal and backbone applications.

Mechanical and Environmental Properties

Maximum tensile load	14 kg per simplex cable (installation)
Minimum bend radius	8x outer diameter (installation) 4x outer diameter (operation)
Temperature	0°C to +50°C (installation) -10°C to +60°C (operation)

Electrical Properties (At 20°C)

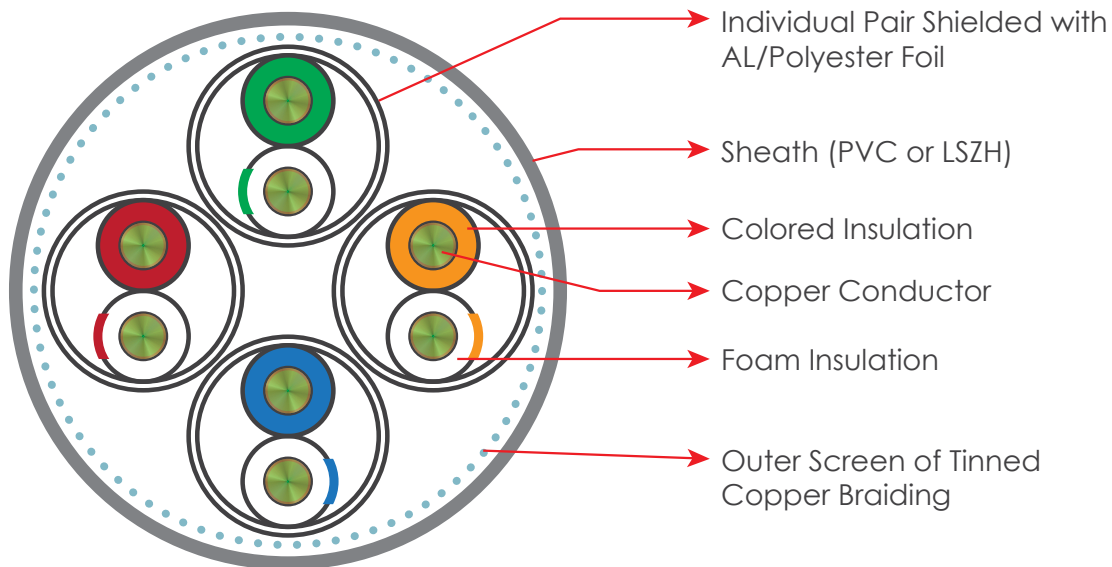
Electrically and mechanically high-quality Cat.7A data cable - exceeds the requirements of ISO/IEC 11801, IEC 61156-5, IEC 61156-7, EN 50173-1 and EN 50288-9-1.

Electrical Characteristics@ 20°C	Specifications	Typical Performance
Conductor loop resistance	Max. 19.0 / 100m	14.5/ 100m
Conductor resistance unbalance	Max. 2%	1.5%
Dielectric strength	1.0kV de or 0.7kV ac for 1 min	100% in process test
Insulation resistance	500M .km @ U 100-500 V test voltage	>5 GQkm
Capacitance unbalance to earth	Max. 330 pF/100m	330 pF/100m
Velocity of propagation	<538 nsec/100m@1000MHz	496 nsec/100m @ 1000MHz (NVP for hand held testers = 0.69)
Skew	Max. 45 nsec/100m@ 1000MHz	30 nsec/100m@ 1000MHz
Characteristic impedance	100.0 +/- 15.0@ 1000MHz	100.0 +/- 10.0@ 1000MHz
Mutual capacitance	5.6nF/ 100m	5.6nF/ 100m

Order Information

Part No	Type
KSF-L-KK-C7A-0-1	Cat.7A S/FTP Cable LSZH FR (Grey), 500m Reel
KSF-P-KK-C7A-0-1	Cat.7A S/FTP Cable PVC (Grey), 500m Reel

Cable Construction



Color Code

Pair Number	Color
1-2	Blue-White
3-4	Orange-White
5-6	Green-White
7-8	Brown-White

Packaging

305 m - Reel in a box
500 m/ 1000 m - Wooden reel



Manufacturing Process

Canovate controls every stage of the manufacturing process so that quality is built in to every meter of cable, rather than selected out at the end through testing. To ensure the accuracy and precision of the manufacturing process, Canovate routinely calibrates and recertifies process equipment and measurement benches against internationally traceable standards from NPL/ NIST and follows test methods compliant with EIA/TIA and IEC standards.

International Standards

- ISO/IEC 11801 Class FA
- ISO/IEC 61156-5
- EN 50173-1:2002
- EN 50288-9-1
- ANSI/TIA/EIA 568B.2:2002
- IEEE 802.3at
- Cat 7A / Class FA - limit values as specified by IEC 61156-5 and EN 50288-9-1 guaranteed
- IEC 60754-1/-2, EN 60754-1/-2,

