

IndustrialNet™ Category 6A F/UTP Copper Cable

SPECIFICATIONS

Category 6A 4-pair F/UTP copper cable shall meet or exceed the ANSI/TIA-568.2-E Category 6A and ISO 11801 channel standards. The copper conductors shall be 23 AWG with polyethylene (PE) insulation. The copper conductors shall be twisted in pairs and separated by a cross divider. All pairs shall then be covered with a foil shield and an industrially rated LSZH jacket which shall be UV resistant, rodent resistant and flame retardant to LSZH for industrial Ethernet applications.



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LSZH: IFLR6X04BL-VEG

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds the requirements of ISO 11801 Class EA and ANSI/TIA-568.2-E Category 6A Standards for supporting 10GBASE-T transmission over twisted pair cabling systems.
Conductors/insulators:	23 AWG solid copper insulated with PE
Insulation diameter:	1.05mm - 1.25mm (0.041 in. - 0.049 in.)
Flame rating:	IEC 60332-1, IEC 60754 and IEC 61034
Installation tension:	110 N (25 lbf.) maximum
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 60°C (-4°F to 140°F) operation temperature
Cable jacket:	UV resistant and rodent resistant LSZH
Cable diameter:	7.5mm (0.295 in.)
Cable weight:	15kg/305m (34 lbs./1000 ft.)
Packaging:	305m (1000 ft.) on a reel Package tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

UV resistant and rodent resistant cable jacket:	Delivers enhanced mechanical performance
EtherNet/IP compliant design:	Provides performance levels required to support industrial network applications

APPLICATIONS

IndustrialNet™ Category 6A F/UTP Copper Cable provides reliability and high performance as an integral component of the end-to-end solution for Ethernet based communications networks. The cable with a UV resistant and rodent resistant LSZH jacket withstands harsh conditions. Cable is suitable for transmission of high performance 10BASE-T, 100BASE-T, 1000BASE-T and 10GBASE-T uplinks featuring up to gigabit data transmission.

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ADDITIONAL SPECIFICATIONS

Mechanical Test	
Maximum pulling force:	> 400 N (90 lbf)
Minimum bend radius:	8 x cable diameter
Electrical Test	
Nominal velocity of propagation (NVP):	64% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWING

