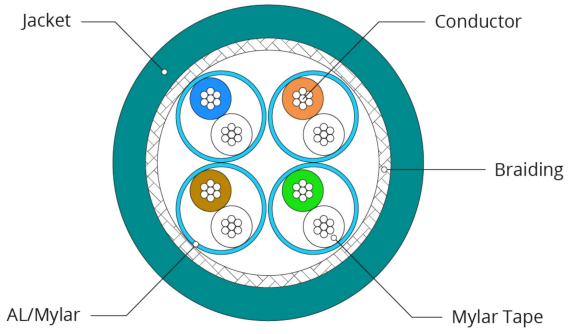
Cat6a Industrial Ethernet Bulk Cable

26AWG • 4 Twisted Pairs • PUR • S/FTP • 750MHz • Stranded Copper



Overview

The Cat 6a industrial S/FTP copper cable is constructed of 26/7AWG stranded copper conductors with HDPE polyethylene insulation. All four pairs are surrounded by an overall braided shield and metallic foil and covered with an Oil and UV Resistance (PUR) jacket. It's ideal for industrial applications and harsh environments.



Key Features

- PUR Jacket for Oil and UV Resistance
- Up to 750MHz with 1G/10GBase-T Speed, Support
- PoE/PoE+ (IEEE 802.3af/at)
- Designed for Industrial Application to Extend
- Internet Connection
- Tested with a Fluke DSX-8000 Versiv Cable Analyzer
- Suitable for Custom Network Installation Projects
- Stranded Conductors for High Flex Applications
- Tangle and Twist-free Packaging

Application

- Rated for any 1G/10GBase-T Ethernet
- Perfectly for industrial-grade solution

Specifications

Physical Characteristics	
Operating Temp. Range	-40 to 80℃ (-40 to176°F)
Max. Operating Voltage (v)	600
Reference Standard	ISO/IEC 11801-1-1, ANSI/TIA-568.2-D

Conductor	
Conductor Type	Stranded Pure Bare Copper
Wire Gauge (AWG)	26
Conductor Nom.O.D. (mm)	7 x 0.160mm
Conductor Qty.	4 Twisted Pairs

Insulation	
Insulation Material	Foam PE
Insulation Diameter (mm)	1.00 ± 0.05
Core Color	A. Blue - White B. Orange - White C. Green - White D. Brown - White

Jacket	
Material	PUR
External O.D. (mm)	6.40 ± 0.30
Thickness (mm)	Approx 0.70
Color	Blue (Similar to RAL5021)
Surface	Mate
Rip Cord	Yes

Specifications

Electrical Characteristics	
Impedance (ohms)	100
Delay Skew (ns/100m)	≤25
Capacitance Unbalance (pF/100m)	≤160
Max. Conductor DC Resistance @20℃ (ohms/100m)	≤148ohm/km
Resistance Unbalance (%)	≤5%

Mechanical Characteristics	
Before Aging Tensile Strength (Mpa)	≥13.5
Before Aging Elongation (%)	≥100
Aging Period (℃×hrs)	113℃ x 24h x 7d
After Aging Tensile Strength (Mpa)	≥70% Unages
After Aging Elongation (%)	≥45% Unages

Other Characteristics	
Transfer Impedance	Grade 1 (IEC 61156-5)
Coupling Attenuation	Type Ib (IEC 61156-5)
Flame Resistance	IEC 60332-1-2
Oil Resistance	IRM 902, 100°Cx96h (UL 758)

Packing	
Packing Type	100m/reel; 500m/drum