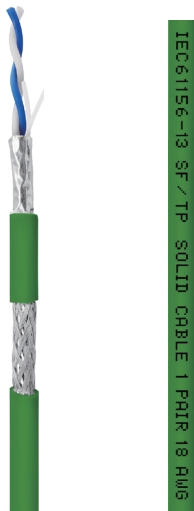


Single Pair Ethernet AWG18 SF/TP Solid Cable



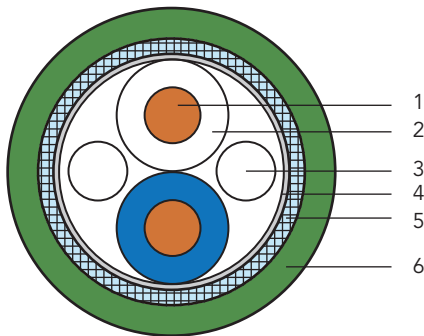
Features

- IP-based transmission
- Suitable for industrial environments
- Economical, slim, flexible cables
- Easy to install and terminate
- High connection density
- Data rate up to 10Mbps
- Applying length to 1000m
- Supports PoDL (Power over Data Line)
- Halogen-free
- Flame tested to IEC 60332-1
- Oil Resistant to UL 758

Applications

- Automotive
- Process Industry
- Building Automation
- Sensor installation
- Lighting Systems

Construction



1. Copper conductor 18 AWG
2. Foam PE Insulation
3. PE Filler
4. Alu-coated polyester film
5. Tinned copper wire braiding
6. Outer Jacket



Wooden drum

Construction features

Conductor	Solid Annealed Bare Copper
Insulation	Foam-Polyethylene
Filler	Polyethylene
Shielding (1)	Alu-coated polyester film, metal-side external
Shielding (2)	Tinned copper wire braiding, with min. 85% coverage
Outer Jacket	PUR

Colour 

CTI Cable Code	Insulation Diameter	Resistance Unbalance
GNA2001	2.45+/-0.05mm	max. 2% at 20°C
Coupling Attenuation	Cable Diameter	Bending Radius
Type I	6.6+/-0.3mm	≥ 4xOD without load ≥ 8xOD with load

Packaging

Wooden drum
500m



Technical data



OPERATING VOLTAGE

60V REF. to EN 50288



TEMPERATURE (operative)

STATIC 0 °C ~ 50 °C
DYNAMIC -40 °C ~ 80 °C



TEST VOLTAGE

AC 2kV / 1min.



INSULATION RESISTANCE

min. 5000 MΩ/km at 500V/20°C



DC RESISTANCE

max. 6.03 Ω / 100m at 20°C



MUTUAL CAPACITANCE

max. 5.6 nf / 100 m at 1 kHz



CHARACTERISTIC IMPEDANCE

100Ω



VELOCITY OF PROPAGATION

nom. 67%

Transmission Performance according to IEC 61156-13 (at 20°C / 100m)

Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB) Max.	Return Loss (dB) Min.	Propagation Delay (ns) Max.
1	100±15	1.5	20.0	570
4		2.6	23.0	552
10		4.1	25.0	545
16		5.2	25.0	543
20		5.8	25.0	542