

Cat.6 350 SF/UTP LSZH

NEXANS C6 350 SF/UTP LSZH 2x4P D500 OR

Contact
Structural Cabling Systems
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Nexans ref.: 10098756

EAN 13: 3427630041536

- Complies to latest Cat6 standard version
- DNV qualification
- Supports Class E applications
- Cable tested to 350 MHz
- Global screen and braid for EMC and mechanical strength performances
- Compatible POE, POE+ and UPOE
- RoHS EC Directive compliant
- European Reach regulation compliant

DESCRIPTION

Application

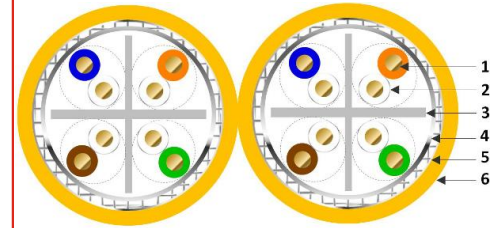
SF/UTP Category 6 cables are the robust offering from Nexans. Manufactured in accordance with ISO IEC 61156-5 requirements, the SF/UTP cable is the best choice to support all Class E applications like Ethernet, Fast Ethernet, Gigabit Ethernet, ... Cat 6 SF/UTP cables are suitable for basic voice and data installations up to 250 MHz. Nexans Cat.6 cables, combined with a similar class of performance connectivity, are suitable for voice and data installations according to ISO/IEC 11801, EN 50173 and TIA/EIA 568 standards.

Construction

1. **Conductor:**Solid bare copper
2. **Insulation:** Polyethylen (EN 50290-2-23) - Two insulated conductors twisted to a pair
3. **Cross filler** - 4/2 laid up together
4. **Screen:**ALU/PET foil - Alu outside
5. **Tinned copper braid**
6. **Outer sheath:**LSZH (EN 50290-2-27)

Environment

Designed to reduce the environment impact, Nexans cables are compliant with RoHS 2011/65 Directive and European Reach 1907/2006/EC regulation. Nexans measure the environmental impact of each cable. Upon request the PEP Ecopassport or the Eco Material Declaration could be available.



STANDARDS

International EN 50173;
EN 50288; IEC 61156-5; ISO/
IEC 11801



Halogen free
Yes



Flame retardant
EN 50265-1;EN
50265-2-1;IEC
60332-1



Smoke density
Yes



Gases corrosivity
IEC 60754-2



Bending factor
installed
4 (xD)



Dynamic bending
factor
8 (xD)



Ambient installation
T°C range
0 .. 50 °C



Ambient static op.
temp
-20 .. 70 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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CHARACTERISTICS

Construction characteristics

Type of cable	SF/UTP
Conductor material	Bare copper
Insulation	PE
Overall screen	Tinned copper braid + Aluminium / Polyester tape
Outer sheath	LSZH
Sheath colour	Orange
Halogen free	Yes
Higher heating value	1750 MJ/km

Dimensional characteristics

Conductor cross-section (AWG)	24
Diameter over insulation	1.125 mm
Number of pairs	8
External dimensions	7.2 x 14.6 mm
Approximate weight	113 kg/km

Electrical characteristics

Mutual capacitance	45 nF/km
Max. DC resistance of the conductor at 20°C	95 Ohm/km
Characteristic impedance at 100 MHz	100 Ohm

Transmission characteristics

Nominal Velocity of Propagation (NVP)	70 %
Coupling attenuation at 30 MHz	>75 dB

Mechanical characteristics

Maximum installation tension	240 N
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Usage characteristics

Field of application	Fixed installations
Category	Cat. 6
Packaging	Drum 500m
Flame retardant	EN 50265-1;EN 50265-2-1;IEC 60332-1
Smoke density	Yes
Gases corrosivity	IEC 60754-2
Bending factor when installed	4 (xD)
Dynamic bending factor	8 (xD)
Ambient installation temperature, range	0 .. 50 °C
Ambient static operating temperature, range	-20 .. 70 °C

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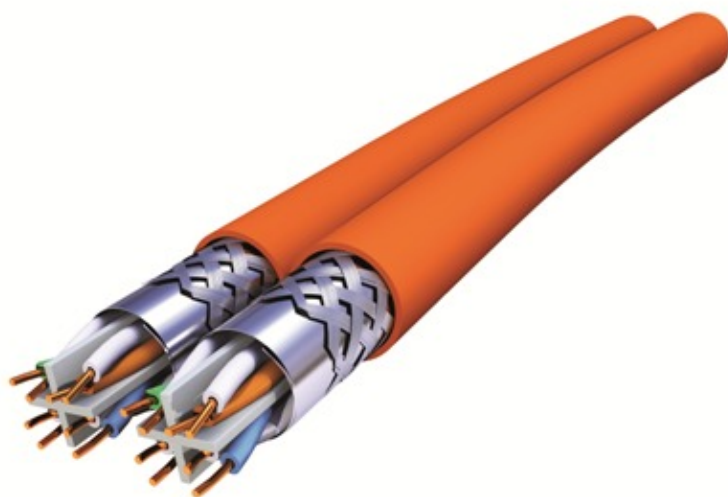
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CAT.6 350 SF/UTP TRANSMISSION CHARACTERISTICS

Values at 20°C

Frequency (MHz)	S/T	4	10	16	20	31.25	62.5	100	155	200	240	250	350
Attenuation max. (dB/100m)	Standard	3.8	6.0	7.6	8.5	10.7	15.5	19.9	25.3	29.1	32.3	33.0	-
	Typical	3.6	5.5	6.9	7.7	9.6	13.7	17.6	22.1	25.4	28.0	28.6	34.4
NEXT min. (dB)	Standard	66.3	60.3	57.2	55.8	52.9	48.4	45.3	42.4	40.8	39.6	39.3	-
	Typical	80.5	72.7	68.8	66.9	63.1	57.2	53.3	49.5	47.4	45.8	45.5	42.7
PSNEXT min. (dB)	Standard	63.3	57.3	54.2	52.8	49.9	45.4	42.3	39.4	37.8	36.6	36.3	-
	Typical	77.5	69.7	65.8	63.9	60.1	54.2	50.3	46.5	44.4	42.8	42.5	39.7
ACRF min. (dB)	Standard	56.0	48.0	43.9	42.0	38.1	32.1	28.0	24.2	22.0	20.4	20.0	-
	Typical	85.5	76.3	71.5	69.3	64.8	57.8	53.1	48.7	46.1	44.3	43.9	40.5
PSACRF min. (dB)	Standard	53.0	45.0	40.9	39.0	35.1	29.1	25.0	21.2	19.0	17.4	17.0	-
	Typical	82.5	73.3	68.5	66.3	61.8	54.8	50.1	45.7	43.1	41.3	40.9	37.5
Return Loss min. (dB)	Standard	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.8	18.0	17.4	17.3	-
	Typical	27.0	29.0	29.0	29.0	27.7	25.8	24.5	23.2	22.5	22.0	21.9	20.9

3D VIEW



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