

Cat.6A 5G S/FTP AWG22 Eca In&Out

NEXANS 5G C6A SFTP AWG22 4P In&Out Eca 500M

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- Designed for 5G and Microwave applications
- Complies to latest Cat 6A standard version
- Supports Class EA applications
- UV and humidity resistant and LSZH
- Flame retardant according to EN50575:2014+A1:2016 and IEC 60332-1
- Individual foiled pairs with global screen for EMC and mechanical performance
- High tensile strength for outdoor installation
- Compatible POE, POE+ and UPOE
- RoHS EC Directive compliant
- Compliant with European Reach regulation

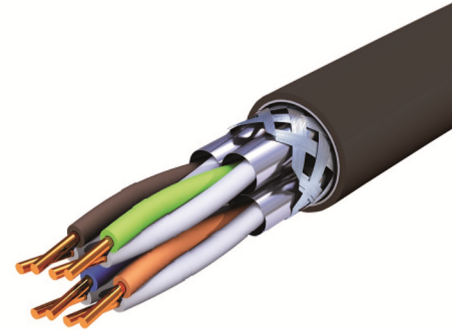
DESCRIPTION

Application

5G S/FTP Category 6A cables with In&Out outer jacket are the very high end offering from Nexans. The special jacket guarantee a very good UV and humidity resistance and also a LSZH compliance. Manufactured in accordance with ISO IEC 61156-7 transmission requirements, The 5G Cat 6A S/FTP cables are specifically designed for indoor and outdoor 5G applications and can support also voice, data, CATV and sharing application installations up to 500 MHz. The high density tinned copper braid offers the right EMC performance required for 5G networks. Combined with Field Terminable RJ45 plug, 5G S/FTP Category 6A cable is the perfect match for direct attached links from base band unit (BBU) up to indoor RRUs.

Construction

1. Conductor: AWG22 solid bare copper
2. Insulation : Polyethylen (EN 50290-2-23) - Two insulated conductors twisted to a pair
3. Screen: ALU/PET on each pair. Alu outside - 4/2 laid up together
4. Tinned copper braid - Optical Coverage > 80%, type 1
5. Outer Jacket : In&Out - UV Resistant (EN 50289-4-17)



UPSKY™

DECLARATION OF PERFORMANCE

Eca

STANDARDS

International EN 50173;
EN 50288; EN 50289-4-17;
EN 50575; IEC 60332-1;
IEC 61156-7 ; ISO/IEC 11801



Halogen free
Yes



Bending factor
when laying
8 (xD)



Bending factor
installed
4 (xD)



Ambient installation
T°C range
-25 ... 50 °C



Ambient static op.
temp
-40 ... 75 °C



Flame retardant
IEC 60332-1



Smoke density
Low



Weather resistance
Excellent

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.

Generated 5/30/23 www.nexans.fr Page 1 / 4

Environment

Designed to reduce the environment impact, Nexans cables are compliant with RoHS 2011/65 Directive and European Reach 1907/2006/EC regulation. The outer sheath of the cable is made of halogen free material (IEC 60754-1 / EN 50267-2-1), with limited fumes emissions (IEC 61034-1/2 / EN 50268-1/2) and no acid gaz emissions in case of fire (IEC 60754-2 / EN 50267-2-2).

Nexans measure the environmental impact of each cable. Upon request the PEP Ecopassport or the Eco Material Declaration could be available.



Halogen free
Yes



Bending factor
when laying
8 (xD)



Bending factor
installed
4 (xD)



Ambient installation
T°C range
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Ambient static op.
temp
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Flame retardant
IEC 60332-1



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Low



Weather resistance
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CHARACTERISTICS

Construction characteristics

Type of cable	S/FTP
Individual screen	Aluminium / Polyester tape
Overall screen	Tinned copper braid
Outer sheath	In & out
Sheath colour	Black
Halogen free	Yes
Higher heating value	660 MJ/km

Dimensional characteristics

Number of pairs	4
Approximate weight	83 kg/km
Nominal outer diameter	8.2 mm
Conductor cross-section (AWG/KCMIL)	22
Copper content	- kg/km
Diameter over insulation	1.53 mm
External dimensions	Not applicable

Electrical characteristics

Mutual capacitance	42 nF/km
Max. DC resistance of the conductor at 20°C	60 Ohm/km
Characteristic impedance at 100 MHz	100 Ohm

Transmission characteristics

Coupling attenuation at 30 MHz	>85 dB
Nominal Velocity of Propagation (NVP)	76 %

Mechanical characteristics

Maximum installation tension	450 N
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Usage characteristics

Packaging	Drum 500 m
Bending factor when laying	8 (xD)
Bending factor when installed	4 (xD)
Ambient installation temperature, range	-25 ... 50 °C
Ambient static operating temperature, range	-40 ... 75 °C
Category	Cat. 6A
Field of application	Indoor, Outdoor
Flame retardant	IEC 60332-1
Smoke density	Low
Weather resistance	Excellent

CAT 6A 5G S FTP TRANSMISSION CHARACTERISTICS

NEXANS CAT.6A 5G S/FTP 4P AWG22 IN&OUT TRANSMISSION CHARACTERISTICS

Values at 20°C

Frequency (MHz)	S/T	4	100	250	500
Attenuation max. (dB/100m)	Standard	3.5	17.5	28.5	41.8
	Typical	3.3	16.6	26.5	37.8
NEXT min. (dB)	Standard	78	75.4	69.4	64.9
	Typical	109	107.6	105.9	103.6
PSNEXT min. (dB)	Standard	75	72.4	66.4	61.9
	Typical	103.6	101.4	100.1	95.9
ACRF min. (dB)	Standard	78	60.6	52.7	46.6
	Typical	112.2	98.8	95.1	88.8
PSACRF min. (dB)	Standard	75	57.6	49.7	43.6
	Typical	104.7	93.1	86.2	78.4
Return Loss min. (dB)	Standard	23	20.1	17.3	17.3
	Typical	39	36.8	34.6	34