

LAN 7A - ARMoured

S/FTP LSZH 4x2xAWG23/1 Cat.7A (up to 1000 MHz)



Approved by:



APPLICATIONS

- Indoor/Outdoor installation in Off-shore, Oil & Gas and Marine applications
- Data transmission and telecommunication systems
- Structured cabling for Ethernet networks.

OPERATING TEMPERATURE

-20°C / +70°C (operating)
 -20°C / +70°C (storage)
 -5°C / +50°C (installation)

MINIMUM BENDING RADIUS

20 times the outer diameter (static)

CABLE CONSTRUCTION

Conductors

Plain annealed copper wire, AWG23/1

Insulation

Foam Polyolefin

Twisting/Individual screen

The insulated cores shall be twisted in pairs and wrapped with Al/Pet tape.

Cabling

The pairs are cabled together

Overall screen

Tinned copper braid

Inner sheath

LSZH thermoplastic material

Armour

Galvanized steel wire braid

Outer sheath

LSZH thermoplastic material (SHF1 - SHF2 - SHF2 MUD resistant compound⁽¹⁾)

Nom. Outer diameter

12.6 mm

PAIRS COLOUR CODE

- 1st pair:** ● ●
2nd pair: ● ●
3rd pair: ● ●
4th pair: ● ●

APPLICABLE STANDARDS

Standard reference

IEC 61156-5; EN 50288-5-1;
 EN 50289-4-16; ISO/IEC 11801;
 NEK 606;

Flame retardant

IEC 60332-1-2

Fire retardant

IEC 60332-3-22

Acid gas emission:

BS EN 60754-1, BS EN 60754-2

Smoke density

BS EN 61034-2

ELECTRICAL CHARACTERISTICS

Max DC conductor resistance

73 Ω/km

Max operating voltage

125 Vac

Min insulation resistance

5000 MΩ x km

Capacitance @800 Hz

43 pF/m

Characteristic Impedance

100 Ω

Velocity of propagation

>70%

Loop resistance

146 Ω/km

Type	N° Pairs	Insulation Diameter (mm)	Outer Diameter (mm)	Outer Diameter (mm)	Weight (kg/km)
CAT. 7 S/FTP LAN -SHF1	4	1.35	9.0	12.6	200
CAT. 7 S/FTP LAN -SHF2	4	1.35	9.0	12.6	200
CAT. 7 S/FTP LAN -SHF2 MUD - GSWB	4	1.35	9.0	12.6	200

approximate values

⁽¹⁾ Tested for: Oil based drilling fluid, Calcio Bromide Brine, IRM 902 and IRM 903 oils