

# LAN 7 - ARMoured

S/FTP LSZH 4x2xAWG23/1 Cat.7 (up to 600 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<sup>(1)</sup>)

### 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

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