

## LAN 7

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)  
-10°C / +60°C (installation)

### MINIMUM BENDING RADIUS

10 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.

#### Outer sheath

LSZH thermoplastic material (SHF1 - SHF2 - SHF2 MUD resistant compound<sup>(1)</sup>)

#### Nom. Outer diameter

9.00 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)	Weight (kg/km)
CAT. 7 S/FTP LAN -SHF1	4	1.35	9.0	90
CAT. 7 S/FTP LAN -SHF2	4	1.35	9.0	90
CAT. 7 S/FTP LAN -SHF2 MUD	4	1.35	9.0	90

approximate values

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

