



Conducting Value

# COMMUNICATION CABLES FOR MARINE AND OFFSHORE APPLICATIONS





CORPORATE VIDEO



ISO 9001:2015  
Certificate No. CS1-249



Assessed to ISO 9001:2015  
Cert/LPCB ref. 217



ISO 9001:2015  
n. 9125.CAVL



ISO 14001:2015  
n. 9191.CVCL



## MARINE AND OFFSHORE COMMUNICATION CABLES

CaviceL provides a wide range of Marine and Offshore cables able to meet the highest requirements of performance and safety.

Beyond the cables presented in this catalogue, CaviceL offers customized solutions, including hybrid cables.



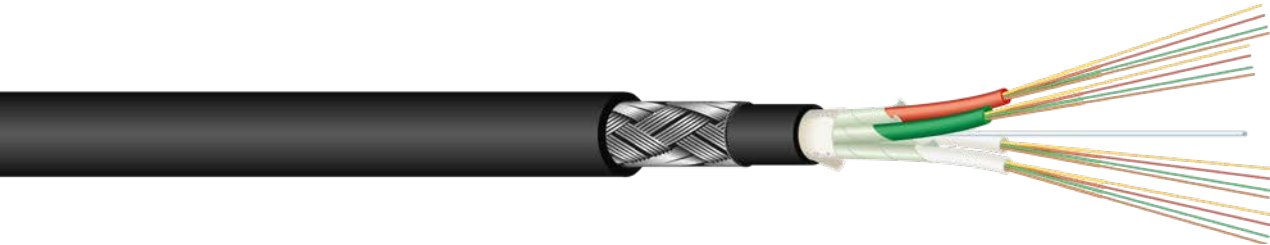
***Be safe and choose CaviceL cables***



# QFCI/QFCU

Multiloose Fire resistant

MLO-000-\*\*-M1-A1-FR-QFCI/QFCU



Approved by:



## APPLICATIONS

- Safety Systems, Critical Connections and Fire Fighting Systems
- Outdoor installation in Off-shore, Oil & Gas and Marine applications
- Data transmission and telecommunication systems

## OPERATING TEMPERATURE

-40 °C / + 70 °C (operating)  
-40 °C / + 70 °C (storage)  
-10 °C / + 70 °C (installation)

## MINIMUM BENDING RADIUS

20 times overall diameter (dynamic)  
10 times overall diameter (static)

## CABLE CONSTRUCTION

### Fibres

Singlemode and multimode fibres, with loose technology coating.

### Structure

The jelly filled tubes containing the fibres are individually wrapped with a mica tape and are cabled around a central steel or FRP (fibreglass reinforced plastic) element. A flame resistant tape improves fire resistance.

### Inner sheath

LSZH compound.

### Armouring

Galvanized steel wire braid

### Outer sheath

**QFCI** type: LSZH - SHF1 compound

**QFCU** type: LSZH SHF2, SHF2 MUD resistant compound<sup>(1)</sup>

## APPLICABLE STANDARDS

### Materials

IEC 60092-360

### Optical fibre characteristics

IEC 60794-1-1, IEC 60794-1-2

### Fire resistant

IEC 60331-25

### Fire retardant

IEC 60332-3-24

### Flame retardant

IEC 60332-1-2

### Acid gas emission

IEC 60754-1, EC 60754-2

### Smoke density

IEC 61034-2 EN 50268-2

### Cables for offshore installation

NEK 606

Type	Fibre (n° max)	Tube Diameter (mm)	Diameter (mm)	Weight (kg/km)	Tension load (N)	Crush (N/100mm)
MLO-000-**(n)-M1-A1-FR-QFCI/QFCU	4	2.5	13.5	230	1500	3000
MLO-000-**(n)-M1-A1-FR-QFCI/QFCU	8	2.5	13.5	230	1500	3000
MLO-000-**(n)-M1-A1-FR-QFCI/QFCU	12	2.5	13.5	230	1500	3000
MLO-000-**(n)-M1-A1-FR-QFCI/QFCU	24	2.5	13.5	230	1500	3000
MLO-000-**(n)-M1-A1-FR-QFCI/QFCU	48	2.5	13.5	230	1500	3000

approximate values

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

MADE IN ITALY

# AICI/AICU

MultiTight

MTI-000-\*\*-M1-A1-AICI/AICU



Approved by:



## APPLICATIONS

- Outdoor installation in Off-shore, Oil & Gas and Marine applications
- Data transmission and telecommunication systems

## OPERATING TEMPERATURE

-40 °C / + 70 °C (operating)  
 -40 °C / + 70 °C (storage)  
 -10 °C / + 70 °C (installation)

## MINIMUM BENDING RADIUS

20 times overall diameter (dynamic)  
 10 times overall diameter (static)

## CABLE CONSTRUCTION

### Fibres

Singlemode and multimode fibres, with tight technology coating.

### Structure

Tight fibers (each single fiber reinforced by PA at 850 micron), assembled around a central FRP with peripheral swellable aramide yarns.

### Inner sheath

LSZH compound.

### Armouring

Galvanized steel wire braid

### Outer sheath

**AICI** type: LSZH SHF1 compound

**AICU** type: LSZH SHF2 - MUD resistant compound<sup>(1)</sup>

## APPLICABLE STANDARDS

### Materials

IEC 60092-360

### Optical fibre characteristics

IEC 60794-1-1, IEC 60794-1-2

### Fireretardant

IEC 60332-3-24

### Flame retardant

IEC 60332-1-2

### Acid gas emission

IEC 60754-1, IEC 60754-2

### Smoke density

IEC 61034-2

### Cables for offshore installation

NEK 606

Type	Fibre (n° max)	Tube Diameter (mm)	Diameter (mm)	Weight (kg/km)	Tension load (N)	Crush (N/100mm)
MTI-000-**-M1-A1-AICI/AICU	2	0.850	7.8	88	500	2000
MTI-000-**-M1-A1-AICI/AICU	4	0.850	8.0	98	600	2000
MTI-000-**-M1-A1-AICI/AICU	8	0.850	9.0	110	800	2000
MTI-000-**-M1-A1-AICI/AICU	12	0.850	10.0	130	1000	2000

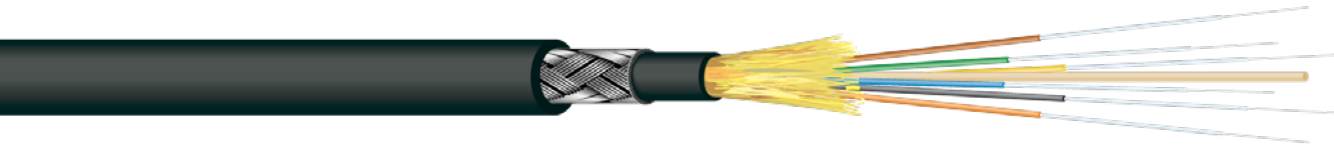
approximate values

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

# AIOI/AIOU

MultiTight

MTI-000-\*\*-M1-A1-AIOI/AIOU



Approved by:



## APPLICATIONS

- Outdoor installation in Off-shore, Oil & Gas and Marine applications
- Data transmission and telecommunication systems

## OPERATING TEMPERATURE

- 40 °C / +70 °C (operating)
- 40 °C / +70 °C (storage)
- 10 °C / +70 °C (installation)

## MINIMUM BENDING RADIUS

- 20 times overall diameter (dynamic)
- 10 times overall diameter (static)

## CABLE CONSTRUCTION

### Fibres

Singlemode and multimode fibres, with tight technology coating.

### Structure

Tight fibers (each single fiber reinforced by PA at 850 micron), assembled around a central FRP with peripheral swellable aramide yarns.

### Inner sheath

LSZH compound.

### Armouring

Tinned copper wire braid

### Outer sheath

**AIOI** type: LSZH SHF1 compound

**AIOU** type: LSZH SHF2, SHF2 MUD resistant compound<sup>(1)</sup>

## APPLICABLE STANDARDS

### Materials

IEC 60092-360

### Optical fibre characteristics

IEC 60794-1-1, IEC 60794-1-2

### Fireretardant

IEC 60332-3-24

### Flame retardant

IEC 60332-1-2

### Acid gas emission

IEC 60754-1

IEC 60754-2

### Smoke density

IEC 61034-2

### Cables for offshore installation

NEK 606

Type	Fibre (n° max)	Tube Diameter (mm)	Diameter (mm)	Weight (kg/km)	Tension load (N)	Crush (N/100mm)
MTI-000-**-M1-A1-AIOI/AIOU	2	0.850	7.8	88	500	2000
MTI-000-**-M1-A1-AIOI/AIOU	4	0.850	8.0	98	600	2000
MTI-000-**-M1-A1-AIOI/AIOU	8	0.850	9.0	110	800	2000
MTI-000-**-M1-A1-AIOI/AIOU	12	0.850	10.2	145	1000	2000

approximate values

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

# SLO-FR

Single tube fire resistant cable

SLO-000-\*\*(n)-M1-A1-WB-FR



Approved by:



## APPLICATIONS

- Safety Systems, Critical Connections and Fire Fighting Systems
- Outdoor installation in Off-shore, Oil & Gas and Marine applications
- Data transmission and telecommunication systems

## OPERATING TEMPERATURE

-40 °C / + 70 °C (operating)  
 -40 °C / + 70 °C (storage)  
 -10 °C / + 70 °C (installation)

## MINIMUM BENDING RADIUS

20 times overall diameter (dynamic)  
 10 times overall diameter (static)

## CABLE CONSTRUCTION

### Fibres

Singlemode and multimode fibres, with loose technology coating.

### Structure

The jelly filled tube containing up to 24 fibres wrapped with a mica tape. Overall glass yarns and glass tape to improve the fire and WB performance

### Inner sheath

LSZH compound.

### Armouring

Galvanized steel wire braid

### Outer sheath

Type: LSZH - SHF1 compound

## APPLICABLE STANDARDS

### Materials

IEC 60092-360

### Optical fibre characteristics

IEC 60794-1-1, IEC 60794-1-2

### Fire resistant

IEC 60331-25

### Fire retardant

IEC 60332-3-22

### Flame retardant

IEC 60332-1-2

### Acid gas emission

IEC 60754-1, EC 60754-2

### Smoke density

IEC 61034-2 EN 50268-2

### Cables for offshore installation

NEK 606

Type	Fibre (n° max)	Tube Diameter (mm)	Diameter (mm)	Weight (kg/km)	Tension load (N)	Crush (N/100mm)
SLO-000-**(n)-M1-A1-FR	4	2.7	9.6	120	1500	3000
SLO-000-**(n)-M1-A1-FR	8	2.7	9.6	120	1500	3000
SLO-000-**(n)-M1-A1-FR	12	2.7	9.6	120	1500	3000
SLO-000-**(n)-M1-A1-FR	24	2.7	9.6	120	1500	3000

approximate values

# LAN 7

S/FTP LSZH 4x2xAWG23/1 Cat.7 (up to 600 MHz)



## 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

# LAN 7 - Flexible

S/FTP LSZH 4x2xAWG23/7 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

12 times the outer diameter (static)

## CABLE CONSTRUCTION

### Conductors

Plain annealed copper wire, AWG23/7

### 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 60332-3-24

### 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%

Type	N° Pairs	Insulation Diameter (mm)	Outer Diameter (mm)	Weight (kg/km)
CAT. 7 S/FTP LAN -SHF1	4	1.55	9.0	100
CAT. 7 S/FTP LAN -SHF2	4	1.55	9.0	100
CAT. 7 S/FTP LAN -SHF2 MUD	4	1.55	9.0	100

approximate values

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

MADE IN ITALY

# LAN 7 A

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



## 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

# LAN 7 A - Flexible

S/FTP LSZH 4x2xAWG23/7 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

12 times the outer diameter (static)

## CABLE CONSTRUCTION

### Conductors

Plain annealed copper wire, AWG23/7

### 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 60332-3-24

### 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%

Type	N° Pairs	Insulation Diameter (mm)	Outer Diameter (mm)	Weight (kg/km)
CAT. 7 S/FTP LAN -SHF1	4	1.55	9.0	100
CAT. 7 S/FTP LAN -SHF2	4	1.55	9.0	100
CAT. 7 S/FTP LAN -SHF2 MUD	4	1.55	9.0	100

approximate values

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

# 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

MADE IN ITALY

# 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 <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

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**QUALITY IS OUR**  
**≡ BUSINESS**



**Caviced**

Conducting Value



Conducting Value

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**CAVICEL SpA**

Via Caduti del Lavoro, 18/A  
20096 Pioltello (Milano)  
Italy  
ph. +39 - 02 - 921.605.21  
fax +39 - 02 - 921.607.53  
e-mail: cavicel@cavicel.com

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**DUBAI BRANCH OFFICE**

Fortune Executive Tower  
Office 406 - Plot No. T1  
Jumeirah Lakes Towers  
Dubai - UAE - PO Box 634377  
ph. +971 4.4581199  
fax +971 4.4581144  
e-mail: middleeast@cavicel.com

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[www.cavicel.com](http://www.cavicel.com)

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