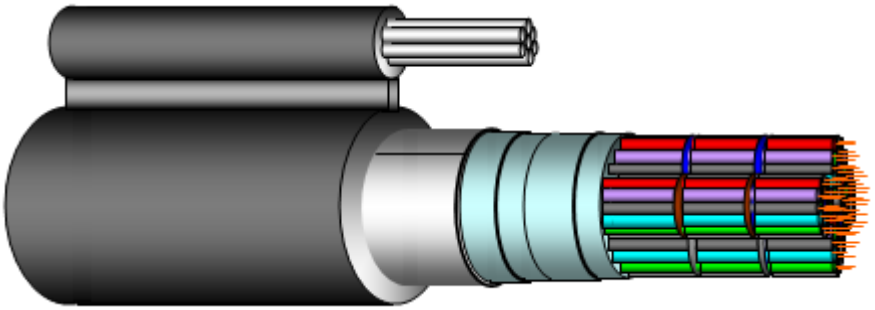
A-02YSF(L)T2Y

Based on IEC 60708

Cable design

Foam skin polyethylene insulated, pairs, filled and moisture barrier polyethylene sheath which includes a suspension steel strand (Figure 8 configuration), based IEC Publication 60708. Suitable for aerial self-supporting installation.



Application

Aerial

Construction

Conductor	The conductor consists of annealed copper with nominal diameter 0.5 mm
Insulation	Each conductor shall be insulated with coloured foam skin polyethylene. The insulation shall be continuous and shall have a radial thickness such that the completed cable will meet the electrical requirements specified.
Element cabling	Two insulated conductors shall be twisted to form a pair with specific colour to provide pair identification
Core assembly	The pairs are assembled into sub units and units. Sub units and units are individually identified by binding.
Filling compound	The interstices of the cable core are filled continuously with a compound suitable to prevent water penetration through the cable. Characteristics in accordance with IEC 60708/1 (drop point ≥70°C)
Wrapping	The cable core shall be completely covered with one or more layers of non-hygroscopic dielectric material
Moisture barrier	Longitudinal aluminium tape coated on both sides and bonded to inner sheath. The nominal thickness of the aluminium tape shall be 0.15 mm. The thickness of the coating shall be greated than 0.038 mm.
Outer sheath	Black (LLDPE or MDPE) polyethylene. Sheath covers the suspension strand and cable core to form a figure "8" construction.
Suspension strand	Galvanized steel wires

Cable lay-up

No. of pairs	Stranding	Number of spare pairs
20	2 x 10p	0
50	5 x 10p	0

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Colour of insulation

Pair number	Insulation colour	
	Wire A	Wire B
1	White	Blue
2		Orange
3		Green
4		Brown
5		Gray
6	Red	Blue
7		Orange
8		Green
9		Brown
10		Gray

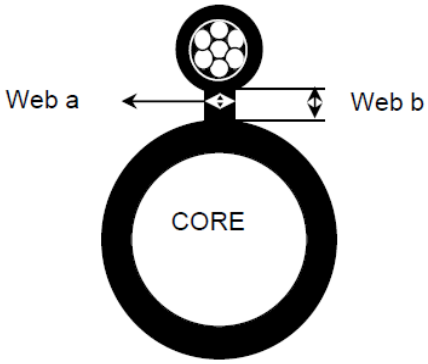
Colour of binders

Sub Unit Number	Colour of bindings
1	Blue
2	Orange
3	Green
4	Brown
5	Grey

Dimensions

Cable code			Nom. thickness of the PE sheath		Approx. tensile strength of suspension strand	Cable diameter	Approx. cable weigth
			mm		knT	mm	kg / km
			inner	outer		Approx.	
[A-02YSF(L)T2Y]	20	x2x0.5	-	1.4	12.5	22.2 x 12.5	262
[A-02YSF(L)T2Y]	50	x2x0.5	-	1.4	16.0	26.9 x 16.8	453

Web		Diameter of the core	
		<= 21.0 mm	> 21.0 mm
a	Min	2.0	2.4
	Max	2.8	3.2
b	Min	3.0	5.0
	Max	3.8	6.0



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Sheath marking

The following legend shall be marked on the outer sheath at 1 meter intervals with white or yellow colour.

"Manufacturer name" Cable type mm/aaaa nn/d sequential metric

Where:
X = factory identification code
mm = production month
aaaa = production year
nn = pair number (e.g. 100)
d = conductor diameter (e.g. 0.5)

Example: PRYSMIAN A-02YSF(L)T2Y 04/2011 20/0.5 0010 M

Printing of firm identification tape:
"Manufacturer name" Year of manufacture and type of cable

Electrical characteristics

- D.C. electrical resistance of each conductor:

Conductor diameter (mm)	Max. individual value (ohm/km)	Average value (ohm/km)
0.5	96.0	92.1

- Electrical resistance unbalance between conductors in the same pair: max. 5%

- Voltage test:

- Duration of test	sec.	3	60
- Conductor/conductor	kV d.c.	1.0	0.5
- Conductors/screen	kV d.c.	2.0	1.0

- Insulation resistance after 1 minute of electrification at 500 V d.v.: min. 1500 Mohm*km

- Mutual capacitance:

- 20 pairs or more	individual value	nF/km	64
	max average value	nF/km	55
- less than 20 pairs	indivudual value	nF/km	64

Values may be increase % 20 ≤ 10 pairs

- Impedance (Ohm) at 1000 kHz : ≤ 130 Ohm

- Water penetration 3 m 24 hours Test method IEC 60794 No dye from the cable core

- Characteristic Attenuation (dB/km)

Frequency (kHz)	Conductor diameter (mm) 0.4	0.5
1	-	1.65
150	-	11.2

Mechanical characteristics

Temperature range	**Transport, storage, operation**	**-30 to +70**	**°C**
	Installation	-5 to +50	**°C**
Bending radius	Repeated bending	Min. 20 x cable diameter	
	Cable bend	Min. 15 x cable diameter	