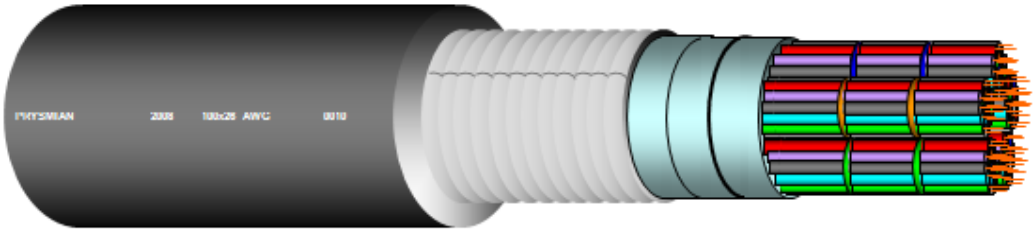
A-02YSF(L)2Y...x2x24AWG

(TDT 1157 Rev 01)

FOAM SKIN POLYETHYLENE INSULATED, PAIR CONSTRUCTION, FILLED ALUMINIUM SHIELDED, UNARMOURED , POLYETHYLENE OUTER SHEATHED TELECOMM CABLES (Based on PE-89)



Application

Telecommunication cable for telecommunication and data transmission .

Color Coding

Pair No.	1	2	3	4	5	6	7	8	9	10
a-wire	white	white	white	white	white	red	red	red	red	red
b-wire	blue	orange	green	brown	grey	blue	orange	green	brown	grey

Pair No.	11	12	13	14	15	16	17	18	19	20
a-wire	black	black	black	black	black	yellow	yellow	yellow	yellow	yellow
b-wire	blue	orange	green	brown	grey	blue	orange	green	brown	grey
Pair No.	21	22	23	24	25		27	28	29	30
a-wire	violet	violet	violet	violet	violet					
b-wire	blue	orange	green	brown	grey					
Binding colours	1	2	3	4	5	6	7	8	9	10
	white	white	white	white	white	red	red	red	red	red
	blue	orange	green	brown	grey	blue	orange	green	brown	grey
Binding colours	11	12								
	black	black								
	blue	orange								

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Construction

A-02YSF(L)2Y	
Conductor	Annealed solid copper wire diameter 24 AWG 0.5 ± 0.1 mm
Insulation	Foam skin polyethylene
Cabling element	pairs with lay length ≤ **150** mm
Stranding of pairs	12,13 or 25 groups (50 P = 12 P+13P+12P+13P , 100 P = 4x25P , 300 P = 12x25 P)
Spaire pairs	Cables equal and greater than 100 pairs will be provided with spare pairs. One pair for each 100 pairs
Filling	The interstices of the cable core will be filled with a filling compound suitable for use at temperature of 70 °C (filling compound is not ETPR (rubber) based)
Wrapping tape	The cable core will be completely covered with one or more layers of non-hygroscopic and non-wicking dielectric material The core wrap will be helically applied with an overlap
Shield	A single corrugated shield will be applied longitudinally over the core wrap. Aluminum tape will be plastic coated on both sides
Outer sheath	A black polyethylene (L(L)DPE) , nom thickness : 1.2 mm
Marking	□ **PRYSMIAN 2008 100 x 24 AWG metric** Manufacturer's name - Year of manufacture - Pair count - AWG identification

Mechanical properties

Bending radius	without load	≥ 15xCable diameter mm
	with tension	≥ 20xCable diameter mm
Temperature range	during operation	-20°C to + 70°C
	during installation	0°C to + 50°C
Water tightness	According to IEC 60794	3m , 24 hours , no leak end of cable

Electrical properties

at 20°C± 5°C

Conductor diameter	mm	24 AWG			
Conductor resistance, max. Indv.	Ω/km	89.5			
Conductor resistance, max. average	Ω/km	87			
Resistance unblance , max. Indv.	%	5			
Resistance unblance , max. average	%	1.5			
Mutual capacitance Average of all pairs	nF/Km at 0.8 kHz	52 + 2			
Mutual capacitance max. any pairs	nF/Km at 0.8 kHz	57			
Unbalance capacitance pair to pair	pF/Km at 0.8 – 1 kHz	145			
Unbalance capacitance Individual pair	pF/Km at 0.8 – 1 kHz	2625			
Insulation resistance	GΩ.km	≥ 1.6			
Attenuation at 150 kHz	dB/Km	≤ 8.9			
Attenuation at 772 kHz	dB/Km	≤ 18.4			