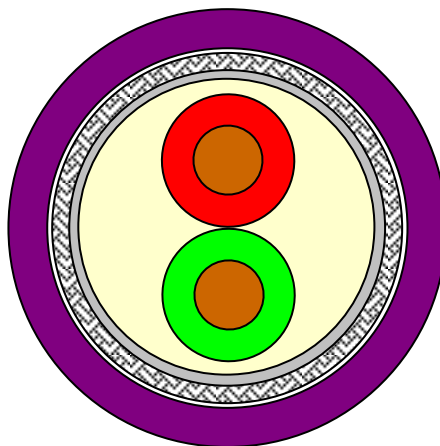


ICS PB DP FC 1x2xAWG22/1 LSHF-FR

PROFIBUS FC LSHF-FR Cable



Application

Installation cable for Profibus DP buses, according to IEC 61158-2.

- Halogen free and flame resistant
- Limited segment length (according to PROFIBUS-Net Manual)
- FastConnect-assembly
- UV-resistant
- Silicon free
- Limited oil and grease resistance

Standards

Customer specification

Flame Resistance

LSHF: IEC 60332-1, IEC 61034-2, IEC 60754-1/2

LSHF-FR: IEC 60332-1, IEC 60332-3-24, IEC 61034-2, IEC 60754-1/2

VDE 0482-266-2-4

Construction

Conductor	bare copper wire, \varnothing 0.64 mm, (cross-section 0.32 mm ²)
Insulation	foam-skin-PE, \varnothing 2.5 mm
Stranding	two cores as a Pair
Bedding	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, filling the interstices \varnothing 5.4 mm
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 60%
Sheath	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, violet, \varnothing 8.0 mm
Marking	DRAKA ICS PB DP FC 1x2xAWG22/1 LSHF-FR, batch number and meter marking

ICS PB DP FC 1x2xAWG22/1 LSHF-FR

Mechanical properties

Bending radius	single bending repeated bending	≥ 60 mm ≥ 80 mm
Temperature range	Transport and storage Installation	- 15°C to + 70°C - 15°C to + 70°C - 15°C to + 50°C

Electrical properties

at 20°C

Loop resistance	≤ 110 Ω /km
Screen resistance	$\leq 9,5$ Ω /km
Characteristic impedance (Nominal)	150 Ω
Mutual capacitance (at 1 kHz)	ca. 28,5 nF/km
Insulation resistance	≥ 5 G Ω km
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (RMS)	≤ 100 V

Electrical data

at 20°C

Frequency	Impedance (Ω m)	Attenuation (dB/100m)		
9.6 kHz	270 \pm 27	≤ 0.25		
38.4 kHz	185 \pm 18.5	≤ 0.4		
1 MHz				
3 MHz	150 \pm 15			
4 MHz	150 \pm 15	≤ 2.2		
16 MHz	150 \pm 15	≤ 4.2		
20 MHz	150 \pm 15			

Technical data

Part number (old PN)	Cable type DIN/VDE	Type	Product name	Weight	Standard delivery length	Drum size (mm)	Gross weight	Copper content Kg/km	Tensile force
60011470 (1026561)	02YSH(ST)CH	1 x 2 x 0.64/2.55- 150	ICSPB DP FC 1x2xAWG22/1 LSHF-FR	82 kg	1000 m	600/200/310 PWD*	86 kg	21	100 N

*PWD (Plywood Drum)

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