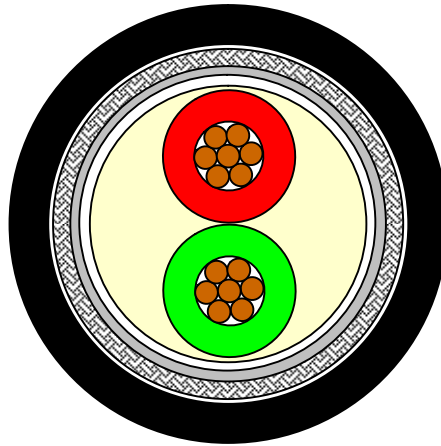


ICS PB PA FC 1x2xAWG18/7 LSHF-FR

PROFIBUS PA FC FLEX LSHF-FR Cable



Application

Spur and trunk cable for flexible installation indoor and outdoor on racks in dry conduits, FastConnect-Assembly

- UV-resistant
- Silikon free
- Limited oil and grease resistant

Standards

IEC 61158 and IEC 61784
Cable type A acc. to Profibus PA

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

Construction

Conductor	stranded bare copper wires, 7x0.40 Ø 1.2 mm, (cross-section AWG18/7)
Insulation	foam-skin-PE, Ø 2.55 mm
Stranding	two cores gn / rd to the Pair
Bedding	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, filling the interstices
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 70%
Sheath	halogen free, flame retardant thermoplastic sheathing compound acc. to EN 50290-2-27, Ø 8.0 mm
Colour	black or blue
Marking	DRAKA ICS PB PA FC 1x2xAWG18/7 LSHF-FR, batch number and meter marking

ICS PB PA FC 1x2xAWG18/7 LSHF-FR

Mechanical properties

Bending radius	single bending repeated bending	≥ 40 mm ≥ 80 mm
Temperature range	Transport and storage Installation	- 30°C to + 70°C - 30°C to + 70°C - 5°C to + 50°C

Electrical properties

at 20°C

Loop resistance	≤ 43.6 Ω/km
Screen resistance nominal	12 Ω/km
Characteristic impedance (at 31.25 kHz)	100 Ω ± 20 Ω
Mutual capacitance (at 1 kHz)	approx. 60 nF/km
Capacitance unbalance to earth max.	2 nF/km
Insulation resistance	≥ 5 GΩkm
Test Voltage (DC, 1 min) Core/Core and Core/Screen	1 kV
Operating voltage (RMS)	≤ 100 V
Inductance (nominal)	0.70 mH/km

Electrical data

at 20°C

Frequency (kHz)	Impedance (Ohm)	Attenuation (dB/100m)	Propagation delay change (µs/km)
7.9-39 31.25 39	100 ± 20	≤ 0.3	≤ 1.7

Technical data

Part number	Cable type DIN/VDE	Type	Product name	Outer diameter mm	Weight kg	Standard delivery length m	Drum size (mm) PWD*	Gross weight kg	Copper content	Tensile force N
1025047	Li-02YSH(ST)CH	1 x 2 x 1.2/2.55-100	ICS PB PA FC 1x2xAWG18/7 LSHF-FR BK	8.0	83	1000	600x200x420	87	36	180
1029194	Li-02YSH(ST)CH	1 x 2 x 1.2/2.55-100	ICS PB PA FC 1x2xAWG18/7 LSHF-FR BU	8.0	83	1000	600x200x420	87	36	180

*PWD (Plywood Drum)

ICS PB PA FC 1x2xAWG18/7 LSHF-FR**Product Code Table**

Product Description	Product Code	PG Reference Code	PG Part Number
ICS PB PA FC 1x2xAWG18/7 LSHF-FR BK	1025047	60013792	60013792
ICS PB PA FC 1x2xAWG18/7 LSHF-FR BU	1029194	60013821	60013821

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