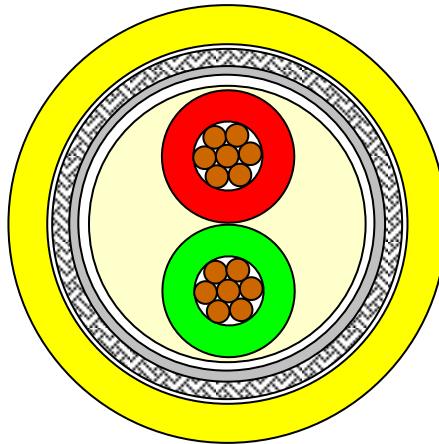


ICS FF FC 1x2xAWG18/7 LSHF-FR

FOUNDATION Fieldbus FC FLEX LSHF-FR Cable



Application

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

- UV-resistant
- Silikon free
- Oil and grease resistant

Standards

IEC 61158 and IEC 61784
Cable type A acc. to FOUNDATION Fieldbus

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 \varnothing 1.2 mm, (cross-section AWG18/7)
Insulation	foam-skin-PE, \varnothing 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, \varnothing 8.0 mm
Colour	yellow
Marking	DRAKA ICS FF FC 1x2xAWG18/7 LSHF-FR, batch number and meter marking

ICS FF FC 1x2xAWG18/7 LSHF-FR

Mechanical properties

Bending radius	single bending repeated bending	≥ 40 mm ≥ 80 mm
Temperature range	Transport and storage Installation	- 40°C to + 70°C - 40°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
60026560	Li-02YSH(ST)CH	1 x 2 x 1.2/2.55-100	ICS FF FC 1x2xAWG18/7 LSHF-FR	8.0	83	1000	600x200x310	87	36	180

*PWD (Plywood Drum)

[PRODUCT CODE TABLE]

ICS FF FC 1x2xAWG18/7 LSHF-FR

© PRYSMIAN GROUP 2011, All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.