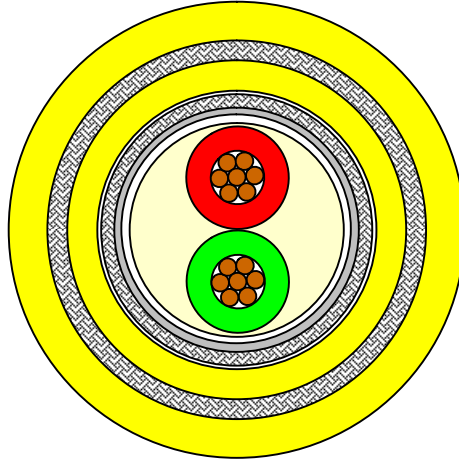




## ICS FF FC 1x2xAWG18/7 SWB PVC

### FOUNDATION Fieldbus FC FLEX Steel Wire Braid Armoured PVC 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

IEC 60332-1-2

### 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	PVC, filling the interstices
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 70%
Sheath	PVC, $\varnothing$ 8.0 mm
Colour	yellow
Armouring	galvanized steel wire braid, optical coverage 85%, $\varnothing$ 9.3 mm
Outer sheath	PVC, $\varnothing$ 12.0 mm
Colour	yellow
Marking	DRAKA ICS FF FC 1x2xAWG18/7 SWB PVC, batch number and meter marking



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### Mechanical properties

Bending radius	single bending repeated bending	≥ 60 mm ≥ 120 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

Product code	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
1025040	Li-02YSY(ST)CY QY	1 x 2 x 1.2/2.55-100	ICS FF FC 1x2xAWG18/7 SWB PVC	12.0	211	1000	770x360 x560	225	36	500

\*PWD (Plywood Drum)