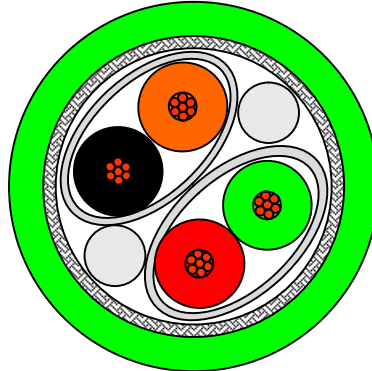


# RS 485 WorldFip

## FB-02YSCH 2x2xAWG26/7 PIMF

### CERN VE4 SCEM 04.21.60.240.4

#### Fieldbus Cable



#### Application

RS 485 Multi Point communications network up to 10 Mb/s  
WorldFip

#### Standards

EIA/TIA

#### Fire rating

IEC 60332-1; IEC 60754-2; IEC 61034;

#### Construction

Conductor	Stranded bare copper wires 7 x 0.16 Ø 0.48 mm (AWG 26/7)
Insulation	Foam skin Polyethylene, Ø 1.8 mm
Twisting	2 cores twisted to the pair Ø 3.6 mm
Pair screen	Al-PET-foil, Al outside Ø 3.7 mm
Cable lay up	Two screened pairs and two fillers twisted to the bundle Ø 5.8 mm
Overall screen	Copper braid, tinned (approx. 80% coverage) Ø 6.4 mm
Sheath	FRNC, green RAL 6018 Megolon S534 Ø 7.9 mm (the cable should be round) wall thickness 0.75 mm, max. outer diameter 8.7 mm
Marking	DRAKA - RS 485 WORLDFIP - CERN VE4 - ZERO HALOGEN - <year of manufacturing> <batch no.> <length marking>

#### Mechanical properties

Bending radius	≥ 40 mm without load, ≥ 80 mm with load
Temperature range, during operation during installation	-30°C up to + 70°C 0°C up to + 50°C
Corrosivity	acc. to IEC60754-2
Smoke density	acc. to IEC 61034

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### Electrical properties

at 20°C

DC conductor resistance	≤ 130 Ω /km
Resistance unbalance	≤ 4%
Insulation resistance (500 V)	≥ 5000 MΩ *km
Capacitance at 800 Hz	≤ 37 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Characteristic impedance (250 kHz-3 MHz) (3 MHz-10 MHz)	(150 ± 15) Ω (150 ± 15) Ω
Nominal velocity of propagation	approx. 78 %
Propagation delay	≤ 460 ns/100m
Attenuation (200 kHz-3.125 MHz)	max. 3.3 dB/100 m
Test voltage (DC, 1 min)	1.0 kV (Core/Core and Core/Screen)
Transfer impedance	at 100 kHz nom. 1 mΩ/m at 1 MHz nom. 3.5 mΩ/m at 10 MHz nom. 2.5 mΩ/m

### Technical data

(Cern Spec. 578 Rev. 1 15.10.2004)

Product code	Designation	Brand name	Outer diameter	Fire load		Weight	Copper content	Tensile force
			mm	MJ/km	kWh/m			
1003052 CS7606300	02YSCH 2x2xAWG26/7 PIMF	VE4	8.2			71	25.4	155