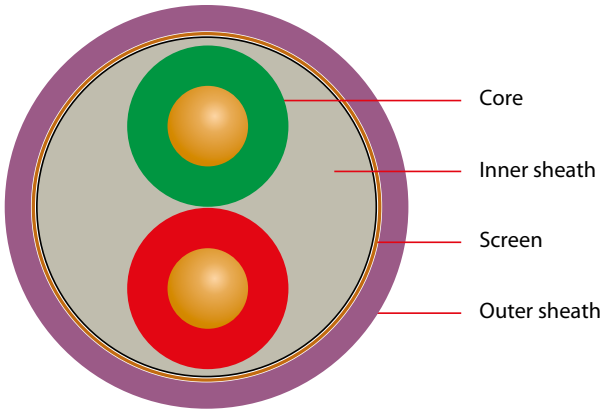
02YSH(St)CH FC

Bus cable for Profibus Fast Connect applications
Fixed indoor installation 1 x 2 x 0,64

Dimension	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
AWG 22/1	7,8	70	25



APPLICATION

Halogen-free bus data cable for transmitting analogue and digital signals in Profibus networks in mechanical engineering. It connects bus segments. Bus technology enables cost-effective wiring of machinery and plant.
The cable is suitable for indoor installation.

Tested for applications under Euroclass Fca.

CONSTRUCTION

Conductor: solid bare copper wire (AWG 22/1)
Core insulation: Foam-Skin PE
Core identification: red-green
Inner sheath: halogen-free material (FRNC)
Screen: aluminium laminate foil; tinned copper multiwire braid (0,10)
Outer sheath: halogen-free material (FRNC); violet RAL 4001

STANDARDS

IEC 61158-2; DIN 19245 T3; EN 50170

BEHAVIOUR UNDER FIRE CONDITIONS

EN 60332-1-2; EN 61034; EN 50267; IEC 60754-2; IEC 61034; UL AWM 21309; EN 13501-6 class Fca

ELECTRICAL CHARACTERISTICS

Loop resistance max.	112 Ω/km
Insulation resistance min.	5 GΩ x km at +20°C
Characteristic impedance (3 - 20MHz)	150 ± 15 Ω
Nominal capacitance	30 nF/km
Attenuation at 9,6 Khz	max. 2,5 dB/km
at 38,4 kHz	max. 4,0 dB/km
at 4,0 Mhz	max. 22,0 dB/km
at 16,0 Mhz	max. 42,0 dB/km
at 20,0 Mhz	max. 45,0 dB/km
Test voltage	1000 V / AC
Rated voltage U_0 / U	125 V
Coupling attenuation	> 80 dB
Transfer impedance	< 20 m Ω/m at 10 MHz

THERMAL & MECHANICAL PROPERTIES

Temperature range, moved	0°C to +50°C
Temperature range, fixed	-20°C to +60°C
Max. bending radius, moved	12 x diameter
Max. bending radius, fixed	6 x diameter
Maximum tensile force	100N

Subject to technical changes and errors

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