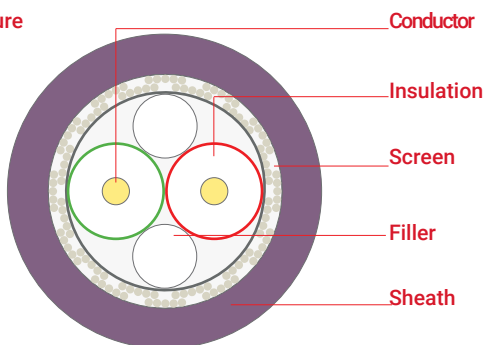




Cable structure



Electrolytic copper wire, Ø 22AWG

Physical foam PE, Ø 2.55 mm, a(N) wire - green / b(P) wire - red
70°C, EN 50290-2-23

Al-Pet foil min. 100% coverage
Tinned braided copper wire, 65% coverage

LDPE - Natural, Ø 1.70 mm
70°C, EN 50290-2-23

PVC - RAL 4001 Purple, Ø 7.90 mm
TM51 70°C, EN 50290-2-22
LSZH/LS0H - RAL4001 Purple, Ø 7.90 mm
70°C, EN 50290-2-27

Application

Efficient high-speed data transmission in industrial automation applications. Easy-to-install and cost-effective thanks to the master/slave connection over a single bus cable.

Standards IEC 61158, EN 50170

Fire performance

Vertical flame propagation EN 60332-1-2 (PVC-LSZH)
Corrosive gas EN 60754-1/2 (LSZH)
Smoke density EN 61034-2 (LSZH)

EU declaration of conformity

LVD Low Voltage Directive 2014/35/EU
RoHS Restriction of Hazardous Substances 2011/65/EU

Specifications

Temperature range		-20°C ...+70°C
Bending radius	min.	15 x D
Loop resistance	max.	110 Ω/km
Screen resistance	nom.	12 Ω/km
Insulation resistance	min.	5000 MΩ x m
Capacitance	nom.	28.5 pF/m
Rated impedance		150 ± 15 Ω
Velocity of propagation		78%
Test voltage		1500 V
Operating voltage	max.	300 V
Attenuation @20°C	max.	9.6 kHz 0.30 dB/100 m 38.4 kHz 0.40 dB/100 m 4 MHz 2.20 dB/100 m 16 MHz 4.20 dB/100 m

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
501005	PROFIBUS DP PVC 02YS(St)CY 1x2x22AWG	7.9	18	65	Purple (RAL 4001)	500/1000
501007	PROFIBUS DP LSZH 02YS(St)CH 1x2x22AWG	7.9	18	67	Purple (RAL 4001)	500/1000

Specifications may vary depending on technical modifications.