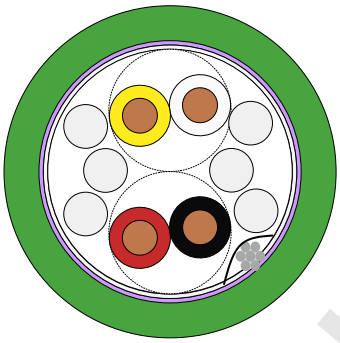
FieldLink®



Design

Wire 2Y 0.8/1.4

Bare copper wire	ø 0.8 mm (0,031 in)
Insulation of Polyethylene (PE)	ø 1.4 mm (0,055 in)
Wall thickness about 0.3 mm	
2 wires twisted to a pair	ø 2.8 mm (0.110 in)

Core:

2 pairs 2Y 2X1X0.8/1.4 (length of lay =5/m)
fillers
Sequence of colors: BK/RD-WH/YE
Plastic tape, overlapped
Stranded drain wire 0.14 mm ² (7X0.16) tinned
Alulaminate foil overlapped — ø 4.7 mm (0.185 in)

Jacket:

Thermoplastic copolymer (FRNC) GN
Wall thickness about 0.8 mm — ø (6.3 +0.4 -0.2) mm (0,248 +0,016 -0,008 in)

Printing: EIB halogenfrei FRNC D_{CA} s2 d2 a1
Textintervals about 500 mm

Electrical data at 20°C

Conductor resistance	≤	37	Ohm/km
Insulation resistance	≥	100	MOhm*km
Insulation resistance (at 70°C)	≥	0.011	MOhm*km
Operating voltage (U0/U)		250/250	V
Capacitance (wire/wire) 1 kHz	≤	90	pF/m
Test voltage			
wire and screen/cable surface rms 50Hz 1min	=	4	kV
wire and screen/cable surface rms 50Hz 5min	=	2.5	kV
wire/wire rms 50Hz 1min	=	1	kV
wire/screen rms 50Hz 1min	=	500	V

Near-end crosstalk attenuation

1	KHz	≥	80	dB
10	KHz	≥	70	dB
100	KHz	≥	60	dB

Mechanical and thermal characteristics
Conductor material acc. to DIN EN 13602 Cu-ETP-A...
Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3) (2Y)
Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)
Flame retardant acc. to IEC 60332-1-2

Other characteristics:
RoHS compliant (Directive 2011/65/EC)
Halogen free acc. to IEC 60754

Fire Class D_{ca} s2 d2 a1 acc. to EN 50575/EN 50399
DoP CDEFR0000003
Conforms to CPR (EU/305/2011)

Permissible temperature range : -40°C (-104°F) up to +70°C (+158°F)
min. bending diameter allowed: multiple 20X ø
single 10X ø
Tensile stress : ≤ 140 N
Weight about : 42 Kg/km (29 lb/1000ft)

Designation of order:

V45493-D49-A159	1000 m (3281 ft) on non-returnable reel
V45493-D49-A159-M9	1000 m (3281 ft) on non-returnable reel (fitted length)
V45493-D49-A159-L6	500 m (1640 ft) on non-returnable reel
V45493-D49-A159-F2	100 m (328 ft) on ring

J-H(ST)H 2X2X0.8 FRNC GN