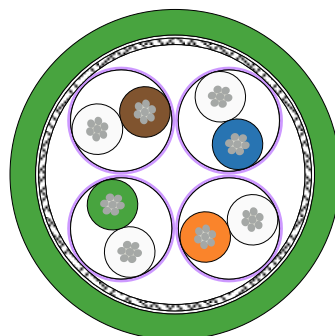


FieldLink®

PROFINET 4TP CAT6_A
4X2X23AWG PIMF



Design

Wire

Stranded tinned copper wire (23 AWG)
Insulation of foamed Polyethylene (PE) with skin

∅ 0.72 mm (0.028 in dia)
∅ 1.58 mm (0.062 in dia)

Screened pair

2 wires twisted to a pair
Alulminate foil overlapped, applied longitudinally

Core

4 screened pairs WH/BU-WH/OG-WH/GN-WH/BN


Shield braiding of tinned copper wires
Coverage about 85%
Plastic tape overlapped

∅ 7.1 mm (0.280 in dia)

Jacket

Polyvinylchloride (PVC) GN

∅ (8.7 ±0.2) mm (0.343 ±0.008 in dia)

Printing: "sequential length in metres" BizLink Special Cables Germany INDUSTRIAL ETHERNET FLEXIBLE CABLE *
PROFINET Typ B 4 pair CAT 6_A * 23AWG (SHIELDED) E130266  AWM STYLE 2461 *
"internal lot number"

Electrical data at 20°C

Loop resistance	≤	150	Ohm/km
Time delay	≤	5.13	ns/m
Insulation resistance	≥	500	MOhm*km
Operating voltage (effective value)	≤	80	V
Time delay skew (Pair to Pair)	≤	20	ns/100m
Characteristic impedance (100 MHz)		(100 ±5)	Ohm
Coupling attenuation (30 - 100 MHz)	≥	80	dB
Test voltage (wire/wire/screen rms 50Hz 1min)		2000	V

Frequency	1	4	8	10	16	20	25	31.25	62.5	100	200	250	300	400	500
Next (dB)	75,3	66,3	61,8	60,3	57,2	55,8	54,3	52,8	48,4	45,3	40,8	39,3	38,1	36,3	34,8
PSNext (dB)	72.3	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	36.3	35.1	33.3	31.8
ELFext (dB)	67.8	55.8	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	21.8	19.8	18.3	15.8	13.8
PSELfext (dB)	64.8	52.8	46.7	44.8	40.7	38.8	36.8	34.9	28.9	24.8	18.8	16.8	15.3	12.8	10.8
Attenuation (dB/100m)	2.1	3.8	5.3	5.8	7.5	8.4	9.4	10.5	15	19.1	27.6	31.1	34.3	40.1	45.3
Return loss (dB)	20	23	24.5	25	25	25	24.3	23.6	21.5	20.1	18	17.3	17.3	17.3	17.3

Electrical requirements acc. to. IEC 61156-5

Mechanical and thermal characteristics

Flame retardant acc. to IEC 60332-1-2

UL-Style 2461 (80°C/300V)

Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)

Limited mineral oil resistant

UV-resistant

Silicone free

Permissible temperature range

Transport, installation and operating: -40 °C (-40 °F) up to 80 °C (176 °F)

Pulling force : ≤ 150 N
 Min. bending radius allowed : repeated 8X ø, single 4X ø
 PVC weight with Phthalate : 27.1 kg/km
 PVC weight without Phthalate : 0.0 kg/km
 Weight about : 83 kg/km (56 lb/1000ft)

Designation of order

L45467-J416-C5
 219834
 02YSCY 4X2X0.72/1.58-100 LI VZN PIMF GN
 1000 m (3281 ft) on non-returnable reel

Product has not been tested and classified according to the CPR (EU/305/2011).
 The product shall not be permanently installed in buildings in the EU.