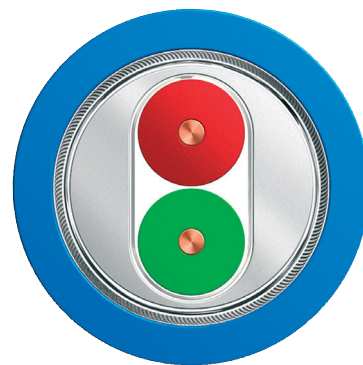


# PROFIBUS DP

ES Cable for Intrinsically Safe applications (LSZH)



## Cable Design

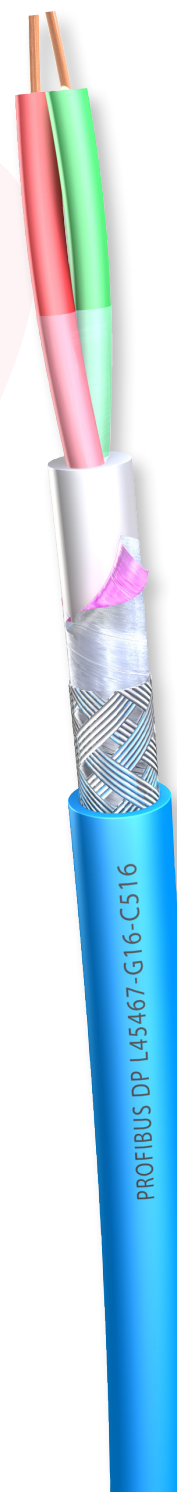
Wire		
Conductor	Solid bare copper wire (22awg)	Ø 0,65 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 2,55 mm
Core		
Pair	2 wires twisted to a pair (RD-GN)	
Tape	Plastic tape overlapped	
Easystrip Jacket	Soft Thermoplastic copolymer	Ø 5,40 mm
Screen	Alulamine foil overlapped	
Braid	Tinned copper wire braid, 55% coverage	Ø 6,20 mm
Outer Jacket	Low Smoke Zero Halogen (LSZH), Blue	Ø 8,0 ± 0,40 mm

## Characteristics

- Flame retardant acc. to IEC 60332-3-1
- Halogen free acc. to IEC 60754,
- Sunlight resistant acc. to UL 1581 Sec. 1200
- Limited oil resistant (4 Std. 60°C)

## Specification

Part Number	Type
L45467-G16-C516	PROFIBUS DP ES, cable for Intrinsically Safe applications (easy to strip), 2x22AWG1, LSZH



# PROFIBUS DP

ES Cable for Intrinsically Safe applications (LSZH)

## Electrical Data @ 20°C

Loop resistance		≤	110	Ohm/km
Screen resistance		≤	9,5	Ohm/km
Insulation resistance		≥	16	GOhm *km
Characteristic Impedance	3-20 MHz		150±15	Ohm
Characteristic Impedance	31,25 - 38,4 kHz		185±18,5	Ohm
Characteristic Impedance	9,6 kHz		270±27	Ohm
Attenuation	16 MHz	≤	42	dB/km
Attenuation	4 MHz	≤	22	dB/km
Attenuation	38,4 kHz	≤	4	dB/km
Attenuation	9,6 kHz	≤	2,5	dB/km
L/R Ratio		≤	15	μH/Ohm
Inductance Value			900	μH/km
Capacitance (1 kHz)		≈	28,5	nF/km
Unbalance to ground		≤	1500	pF/km
Surface transfer impedance	20 MHz	≤	5	mOhm/m
Operating voltage (effective value)		≤	100	V
UL-Rating			300	V
Rel. Velocity of Propagation		≈	81	%
Test Voltage (DC 3 sec)		=	3600	V

## Mechanical & Thermal Characteristics

Permissible temperature range			-25 ~ +80	°C
Min. Bending diameter allowed	repeated		10	x Ø
Min. Bending diameter allowed	single		7,5	x Ø
Pulling force with		≤	100	N
Weight (approx.)			72	kg/km

*Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.*