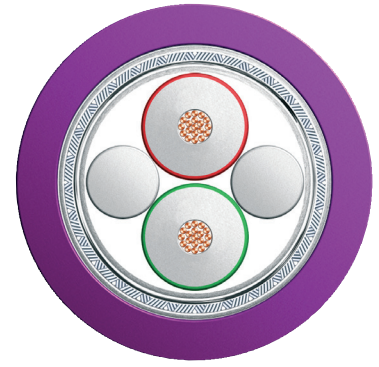


PROFIBUS DP

For Torsional Stress Applications



Cable Design

Wire

Conductor	Stranded bare copper wire 19/0,16mm	Ø 0,80 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 2,56 mm

Core

Pair	2 wires twisted to a pair (RD-GN) with fillers	
Tape	Plastic tape conductiv	
Screen	Alulaminat foil overlapped	
Braid	Tinned copper wire braid, 80% coverage	
Tape	Plastic tape overlapped	Ø 6,0 mm

Outer Jacket	Thermoplastic Polyurethane (TPU) violet	Ø 8,0 ± 0,40 mm
--------------	---	-----------------

Characteristics

- Flame retardant acc. to IEC 60332-1-2,
- Halogen free acc. to IEC 60754,
- Sunlight resistant,
- Oil resistant acc. to UL 13 Sec. 40 (60 °C),

Specification

Part Number	Type
L45467-G18-C18	PROFIBUS DP, flexible cable for torsional stress applications (LSZH), 2x22AWG19, UL listed: CMX, TPU



PROFIBUS DP

For Torsional Stress Applications

Electrical Data @ 20 °C

Loop resistance		≤	98	Ohm/km
Screen resistance		≤	14	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	≤	49	dB/km
Attenuation	4 MHz	≤	25	dB/km
Attenuation	38,4 kHz	≤	3	dB/km
Attenuation	9,6 kHz	≤	2,5	dB/km
Capacitance (1 kHz)		≈	29	nF/km
Operating voltage (effective value)		≤	100	V
UL Rating			300	V
Rel. Velocity of Propagation		≈	85	%
Test Voltage (DC 3 sec)		=	3600	V

Mechanical & Thermal Characteristics

Temperature Range	Operating	-25 ~ +75	°C
Temperature Range	Transport and Storage	-40 ~ +80	°C
Temperature Range	Installation	-25 ~ +75	°C
Min. Bending radius allowed	single	4	x Ø
Min. Bending radius allowed	repeated	7,5	x Ø
Tensile strength		< 100	N
Weight (approx.)		66	kg/km
Torsional Strength		For 360° torsion	
		5 million cycles at ± 180° on 1 meter	
		not adapted for garland mounting	

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.