

LSZH Flame Retardant Profibus PA Cables

300V Single-Pair

FPE Insulated, Double Overall Screen, Unarmoured or Armoured, LSZH Sheathed Cable

Description: CU/FPE/OS/OBS/LSZH or CU/FPE/OS/OBS/LSZH/SWA/LSZH



Application :	For use in process automation, for connecting control systems with field instruments and in potentially explosive atmospheres, especially suitable for areas where fire would create dense smoke and toxic fumes, imposing major threat to lives and equipment.
Voltage rating :	300V
Construction :	Solid bare copper, foam-PE insulated, twisted pair, double overall screen (aluminium/polyester tape with metallic side outside in electrical contact with tinned copper drain wire plus tinned copper wire braid), unarmoured or galvanized steel wires armoured, LSZH sheathed cable
Insulation colour :	Red, Green
Sheath colour :	Black Blue (suitable for intrinsically safe systems)
Specification :	BS EN 50170, BS EN 50288-7, IEC 61158-2, IEC 60332-1-2, IEC 60332-3-24, IEC 60754, IEC 61034-2
Operating temperature :	80°C

Conductor			Unarmoured Cable			Armoured Cable		
Size	No./Diam. of Strand	Approx. Diam.	Part No.	Approx. Overall Diam.	Approx. Weight	Part No.	Approx. Overall Diam.	Approx. Weight
(AWG)	(no./mm)	(mm)		(mm)	(kg/km)		(mm)	(kg/km)
18	7/0.404	2.55	471P1076	8.2	80	471P1077	13.3	335

Electrical Data

Maximum Conductor Loop Resistance D.C. at 20°C	43.6Ω/km
Maximum Shield Resistance D.C. at 20°C	9.5Ω/km
Minimum Insulation Resistance at 20°C	5000MΩ·km
Maximum Capacitance at 1kHz	60nF/km
Nominal Inductance at 31.25 kHz	0.7mH/km
Characteristic Impedance at 31.25 kHz	100 ± 20 Ω

Maximum Attenuation at 20°C

Frequency	Attenuation
at 39kHz	3.0dB/km
at 100kHz	3.5dB/km
at 1MHz	12dB/km