

# IP67 Cables and Connectors, 756 Series

## Technical Data



Technical Data	M8 connecting cable	M12 connecting cable
<b>General</b>		
Operating voltage		
3-pole (0.34 mm <sup>2</sup> conductor)	60 V AC/DC	250 V AC/DC
4-pole (0.34 mm <sup>2</sup> conductor)	60 V AC/DC	250 V AC/DC
5-pole (0.34 mm <sup>2</sup> conductor)	-/-	60 V AC/DC
8-pole (0.25 mm <sup>2</sup> conductor)		32 V AC/DC
Operating current (see also derating curve)	max. 4 A	
Rated surge voltage (IEC 61076-2-101)		
3-pole	1.5 kV	2.5 kV
4-pole	1.5 kV	2.5 kV
5-pole	-/-	1.5 kV
8-pole	-/-	0.8 kV
Insulation resistance (IEC 61076-2-101)	> 10 <sup>9</sup> Ω, > 10 <sup>8</sup> Ω (8-pole)	
Contact resistance (IEC 61076-2-101)	≤ 10 mΩ	
Resistance of conductor	≤ 60 Ω/km	
Degree of pollution (VDE 0110)	III	
Degree of protection (IEC 60529)	IP68 (in fully locked position), IP67 (8-pole)	
Operating temperature (see also derating curve)		
moved	-25 °C ... +90 °C <sup>1+2)</sup>	
static	-50 °C ... +90 °C <sup>1)</sup>	
	<sup>1)</sup> according to UL max. 80 °C	
	<sup>2)</sup> in drag chains or under high mechanical stress +60 °C	
Suitable for drag chain applications		
Bending radius	min. 10 x cable ø	
Bending cycles	≥ 2 million	
Acceleration	max. 5 m/s <sup>2</sup>	
Path feed rate	max. 200 m/min	
Path	max. 5 m horizontal, max. 2 m vertical ± 180° per meter length	
	Silicone and CFC free, resistant to oil, hydrolysis and microbes	
<b>Cables</b>		
Designation	LiF9YH-11YH and Li9YC11YHF	
Comment	designed according to UL + CSA, UL AWM style 21198, core style 10493	
Conductor (3/4/5 conductor 0.34 mm <sup>2</sup> )	fine-stranded bare copper conductors, (42 x 0.1 mm)	
Conductor (8 conductor 0.25 mm <sup>2</sup> )	fine-stranded bare copper conductors, (32 x 0.1 mm)	
Conductor insulation	PP9Y or TPM, halogen free	
Outer jacket	Polyurethane (OPUR) halogen free acc. to DIN VDE 0472 part 815 flame retardant acc. to IEC 332-2, self-extinguishing color: black (≈ RAL 9005)	
Cable ø 3-pole	ø 4.3 mm ± 0.2	
Cable ø 4-pole	ø 4.7 mm ± 0.2	
Cable ø 5-pole and 5-pole shielded	ø 5.2 mm ± 0.2 and ø 5.6 mm ± 0.2	
Cable ø 8-pole and 8-pole shielded	ø 6.3 mm ± 0.2	
<b>Connectors</b>		
Moulded body/housing material	PA, Polyurethane (PUR), black (≈ RAL 9005)	
Contact material	CuSn (BZ4)	
Contact plating	Cu/Au 0.6	
Knurled nut	Zinc die cast (ZnAlCu)	
Knurled nut (surface)	Zn/CuNi	
Sealing ring	Viton	

Derating curve (DIN IEC 512 part 2: 5/94)

