

IP67 Cables and Connectors, 756 Series

Distribution cables for Sensor/Actuator Boxes



Technical Data	M16 connecting cable	M23 connecting cable
General		
Operating voltage		
12-pole	-/-	300 V
14-pole	150 V	-/-
19-pole	-/-	150 V
Operating current		
12-pole	-/-	8 A
14-pole	4 A (0.34mm ²); 6 A (0.75 mm ²)	-/-
19-pole	-/-	10 A (contacts 6, 12, 19); 8 A (other contacts)
Rated surge voltage		
12-pole	-/-	2.5 kV AC
14-pole	1.2 kV	-/-
19-pole	-/-	1.5 kV AC
Insulation resistance	-/-	≥ 10 ¹² Ω
Contact resistance	-/-	≤ 3 mΩ
Resistance of conductor		
0.34 mm ²	≤ 53.5 mΩ/km	≤ 54.1 mΩ/km
0.75 mm ²	≤ 26.0 mΩ/km	-/-
1.0 mm ²	-/-	≤ 18.7 mΩ/km
Degree of pollution (VDE 0110)	II/III	III
Degree of protection (IEC 60529)	IP67 (in fully locked position)	
Operating temperature		
moved	-30 °C ... +90 °C	-5 °C ... +80 °C
static		-40 °C ... +90 °C
Suitable for drag chain applications		
Bending radius		min 10 x Cable ø
Bending cycles		≥ 2 million
Acceleration		max. 5 m/s ²
Path feed rate		max. 200 m/min
Path		max. 5 m horizontal, max. 2 m vertical
Other characteristics	Oil resistant acc. to DIN/VDE 0472 part 803	Silicone/PVC free, resistant to oil, chemicals, hydrolysis and microbes
Cables		
Designation	LifYwYw11Y	Li9YH-11Y
Comment		designed according to UL style 21198, core style 10493
Conductor		100 mm stripped wire end
		fine-stranded bare copper conductors
12-polig (8 wires 0.34 mm ² ; 3 wires 1.0 mm ²)	-/-	43 x 0.1 mm; 128 x 0.1 mm
14-polig (10 wires 0.34 mm ² ; 2 wires 0.75 mm ²)	42 x 0.1 mm; 95 x 0.1 mm	-/-
19-polig (16 wires 0.34 mm ² ; 3 wires 1.0 mm ²)	-/-	43 x 0.1 mm; 55 x 0.1 mm
Conductor insulation	PVC Y1 8 acc. to DIN VDE 0207	PP9Y halogen free
Core wrapping		Fleece
Outer jacket	PUR Polyurethane	Polyurethane (PUR) halogen free flame retardant acc. to DIN VDE 0472, part 804 color: black (≈ RAL 9005)
Cable ø 12-pole	-/-	ø 8.6 mm ± 0.3
Cable ø 14-pole	ø 9.1 mm ± 0.2	-/-
Cable ø 19-pole	-/-	ø 9.7 mm ± 0.3
Connectors		
Mechanical life		50 mating cycles
Moulded body	Polyamide (PA)/UL 94 V0	Thermoplastic Polyester (PBT), Polyamide (PA 66)/UL 94 V0
Housing material	CuZn/Ni	Machined part of Copper-Zinc alloy (CuZn), Die cast part of Zinc (GD-Zn) Polyurethane (PUR), plastic injection moulding
Contact material		CuZn
Contact plating	Gold (Au)	Nickel (Ni) with gold plating (Au) or passivated finish
Sealing and O-ring	CR (Neoprene)	Fluorocarbon rubber (FPM)