

POLYCAB Welding cable confirming to BS EN 50525-2-81.



Polycab offers comprehensive range of Rubber insulated welding cable as per BS EN 50525-2-81.

Polycab Welding cable is designed use in automatic welding as well as manual welding operation at different duty cycle.

Conductor: High conductivity bunched extra flexible (class 6) copper conductor produced in-house from state-of-the art Machine.

Sheath: In-house developed cross linked elastomeric covering around the conductor.

The construction is based on the application and requirement of duty cycle mentioned in BS EN 50525-2-81



[POLYCAB H01N2-D BS EN 50525-2-81 - Welding Cable, 100/100 V AC](#)

POLYCAB H01N2-D BS EN 50525-2-81

Welding Cable, 100/100 V AC



Application

POLYCAB H01N2-D, Cross-linked elastomeric single core cable is designed to use for welding in Automotive Industry, Shipyard industry and automatically operated welding lines as well as spot welding. These Cables are suitable to use for interconnecting battery storage system. These cables are highly resistant to low and high temperatures, ozone, acid, oils and gasoline.

Voltage Rating

100/100 V

Operation Temperature

Fixed: -20°C to + 85° C

Construction

- Annealed bunched copper conductor as per IEC 60228, class 6.
- Polyester tape over conductor (Optional)
- Insulated with cross linked elastomeric compound as per EM 5 to EN 50363-2-2

Bending Radius

Fixed installation - 8 x Overall diameter

Standard and References

IEC 60228
BS EN 50363-2-2
IEC 60332-1-2
BS EN 50525-2-81

Test Voltage

1000V AC at (20±5) °C

Compliance

Conductor Resistance test	- IEC 60228
Static flexibility test	- EN 50396
Impact test	- EN 60811
Test under fire condition	- EN 60332-1-2

Nominal cross sectional area mm ²	Stranding mm	Overall Diameter (Approx.) mm	Weight (Approx.) kg/km	Max. DC conductor resistance at 20°C Ω/km
10	320/0.2	8.5	141	1.91
16	510/0.2	9.3	204	1.21
25	760/0.2	11.0	284	0.78
35	1100/0.2	12.0	392	0.554
50	1570/0.2	14.0	548	0.386
70	2220/0.2	16.0	761	0.272
95	3020/0.2	18.0	1021	0.206
120	608/0.5	20.0	1276	0.161
150	750/0.5	22.0	1564	0.129

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Electrical Characteristics

Current carrying capacity

Nominal cross sectional area mm ²	Current rating for single cycle operation over maximum period of 5 minutes Amp			
	100%	85%	60%	35%
10	100	103	108	122
16	135	146	174	228
25	177	192	228	299
35	221	240	285	374
50	279	303	360	472
70	352	382	454	595
95	424	460	547	717
120	500	540	650	850
150	580	630	750	980

Ambient air temperature = 30°C

Maximum conductor temperature = 85°C

The above table is from IS 9857

De-Rating Factor

Air Temperature	25°C	30°C	35°C	40°C	45°C	50°C
Rating Factor	1.04	1	0.96	0.91	0.87	0.82

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