

POLYCAB Welding cable confirming to IS 9857.



Polycab offers comprehensive range of Rubber insulated welding cable as per IS 9857 & BS 638.

Polycab Welding cable is designed to 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 heat & oil resistant flame retardant compound.

The construction is based on the application and requirement of duty cycle mentioned in IS 9857



[POLYCAB Welding Cable, IS 9857-1 - Welding Cable](#)

POLYCAB Welding Cable, IS 9857

Welding Cable



Application

POLYCAB Welding Cable IS 9857, cable confirm the construction and performance as per IS 9857. These cables are designed to use in machine welding & hand welding to work at dry and wet locations as well as outdoor use.

Operation Temperature

Fixed: -20°C to 90°C

Construction

- Annealed plain bunched electrolytic grade copper conductor to IS 8130, class 6
- Covered by SE3 (HOFR) to IS 6380

Core Identification

Black

Bending Radii

Fixed installation > 5 x Overall Diameter

Standard and References

IS 8130:2013
IS 6380:1984*
IS 9857:1990*

Test Voltage

1000 V AC

Compliance

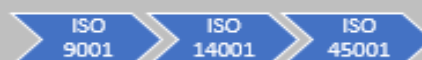
Conductor resistance test IS 8130
Covering resistance test IS 6380:1984*
Flammability IEC 60332-1-2

Approval



Product Code	Nominal cross sectional area mm ²	Nominal thickness of covering mm	Overall diameter mm	Weight (Approx.) kg/km
WCIS00CRUARE001C016S	16	2	9.4	200
WCIS00CRUARE001C025S	25	2	10.8	280
WCIS00CRUARE001C035S	35	2	11.9	375
WCIS00CRUARE001C050S	50	2.2	13.8	525
WCIS00CRUARE001C070S	70	2.4	15.7	725
WCIS00CRUARE001C095S	95	2.6	17.7	925

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Welding Cable

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm	Current carrying capacity at different duty cycle				Maximum DC conductor resistance at 20°C Ω/km
	100% Amp.	85% Amp.	60% Amp.	30% Amp.	
16	135	146	174	246	1.21
25	177	192	228	343	0.780
35	221	240	285	403	0.554
50	279	303	360	509	0.386
70	352	382	454	643	0.272
95	424	460	547	774	0.206

Air temperature: 30°C

Maximum Conductor temperature: 90°C

The above in accordance with the IS 9857

De-Rating Factor

De-rating factor at various ambient temperature

Air temperature	25°C	30°C	35°C	40°C	45°C	50°C
De-rating factor	1.04	1	0.96	0.91	0.87	0.82

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