

WELDING

Cables



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WELDING CABLES

APPLICATION

ORBIT HOFR Welding Cable, Conform 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.

COLOUR OF COVERING

Black

Orange (without ISI mark)

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

BENDING RADIUS

Fixed installation 5 x Overall Diameter

FEATURES OF WELDING CABLES

Light weight

Reliable and efficient

Safe and secure

These Cables can carry signals up to 40 volts

Chloroprene Cables are Easy to carry

Choice of Cables dimensions

Cables may be used in damp, dry, or wet Conditions

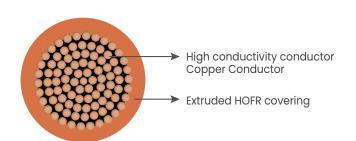
Easy to implement in the circuits

Widely used to distribute low voltage data signal

Cables are suitable for electrical installation industrial control circuits for sending electrical signals

Designed for stripping and overmolding.

Jacket material options to provide high flexibility and excellent mechanical protection.





WELDING CABLE WITH COPPER CONDUCTOR IS, 9857

Nominal cross sectional area	Nominal thickness Overall of covering diameter		Weight (Approx.)	
mm2	mm	mm	kg/km	
16	2	9.4	200	
25	2	10.8	280	
35	2	11.9	375	
50	2.2	13.8	525	
70	2.4	15.7	725	
95	2.6	17.7	925	

ELECTRICAL CHARACTERISTICS

Current carrying capacity and maximum DC conductor resistance.

Nominal cross Sectional area	Current carrying capacity at different duty cycle				Weight	
	100%	85%	60%	30%	(Approx.)	
mm2	Amp.	Amp.	Amp.	Amp.	20°C Ω/km	
16	135	146	174	426	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 table in accordance with the IS 9857

DE-RATING FACTOR

De-rating factor at various ambient temperature

Ambient 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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