

# POLY CAB HOFR Cu Welding Cable, IS 9857

## Welding Cable with Copper conductor

**POLY CAB**  
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

### APPLICATION

POLY CAB HOFR Welding Cable 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. This is also suitable for automatic welding.

### CHARACTERISTICS

**Operation Temperature**  
Fixed: -20°C to 90°C

**Bending Radius**  
5 x Overall Diameter

### 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)

**Test Voltage**  
1000 V AC

### STANDARD FOLLOWS

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

### COMPLIANCE

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

### OUR ACCREDITATIONS



### APPROVAL



# POLYCAT HOFR Cu Welding Cable, IS 9857

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### WEIGHT & DIMENSION DATA :

Product Code	Nominal cross sectional area	Nominal thickness of covering	Overall diameter	Weight (Approx.)
	mm <sup>2</sup>	mm	mm	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

### Electrical characteristics:

#### Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area	Current carrying capacity at different duty cycle				Maximum DC conductor resistance at 20°C
	100%	85%	60%	30%	
mm	Amp.	Amp.	Amp.	Amp.	Ω/km
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