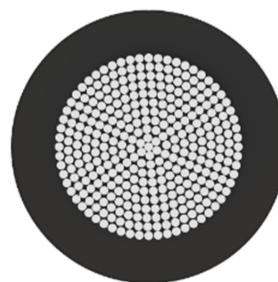
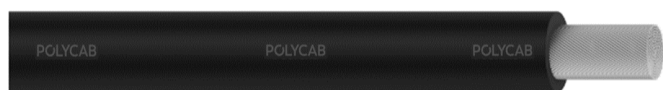


POLYCAB HOFR AL Welding cable, IS 9857

Welding Cable with Aluminium conductor



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB HOFR Welding cable, IS 9857, is designed to use in machine welding & hand welding at dry and wet locations as well as outdoor use wherever light weight is essential. This is also suitable for automatic welding.

CHARACTERISTICS

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

Bending Radius
10 x Overall Diameter

CONSTRUCTION

- Flexible Aluminium conductor to IS 8130
- 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



POLYCAB HOFR AL Welding cable, IS 9857
Welding Cable with Aluminium conductor



WEIGHT & DIMENSION DATA

| Product Code | Nominal cross sectional area | Nominal thickness of covering | Overall diameter (Approx.) | Weight (Approx.) |
|----------------------|------------------------------|-------------------------------|----------------------------|------------------|
| | mm ² | mm | mm | kg/km |
| WCIS00ARUARE001C025S | 25 | 2 | 10.5 | 144 |
| WCIS00ARUARE001C035S | 35 | 2 | 11.7 | 182 |
| WCIS00ARUARE001C050S | 50 | 2.2 | 13.6 | 247 |
| WCIS00ARUARE001C070S | 70 | 2.4 | 15.6 | 331 |
| WCIS00ARUARE001C095S | 95 | 2.6 | 17.8 | 433 |
| WCIS00ARUARE001C120S | 120 | 2.8 | 19.7 | 534 |

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. |
| 25 | 144 | 156 | 186 | 263 | 1.23 |
| 35 | 176 | 191 | 227 | 321 | 0.901 |
| 50 | 222 | 241 | 287 | 405 | 0.634 |
| 70 | 280 | 304 | 361 | 511 | 0.445 |
| 95 | 339 | 368 | 438 | 619 | 0.334 |
| 120 | 404 | 438 | 522 | 738 | 0.256 |

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 |