



**ROBOTIC WELDING LEAD CABLE**

EN 50525-2-81 / IEC 60245 reference

6 orderable sizes

|  |   |  |
|--|---|--|
| <b>STANDARD</b><br>EN 50525-2-81 / IEC 60245<br>reference    | <b>VOLTAGE CLASS</b><br>100/100 V   | <b>TEMPERATURE CLASS</b><br>Flexible service by robot<br>cell duty cycle |
| <b>CONDUCTOR</b><br>Extra fine high-flex copper<br>conductor | <b>INSULATION / JACKET</b><br>High-flex oil and abrasion<br>resistant rubber sheath |  |

**Construction**

- 1** ■ **Conductor** – Extra fine high-flex copper conductor · 396 × Ø0.4 mm · IEC 60228 cl.5
- 2** ■ **Insulation** – High-flex rubber welding insulation

**Size selection — all available cross-sections**

| Cable reference   | Welding duty                | Conductor size     | AWG / kcmil guide | Max DC resistance at 20 °C | OD guide     | Cable weight | Welding current guide |
|---|-----------------------------|--------------------|-------------------|----------------------------|--------------|--------------|-----------------------|
| Robotic welding lead cable 100/100 V<br>Automated welding cell lead 1 core 16 mm <sup>2</sup> | Automated welding cell lead | 16 mm <sup>2</sup> | 6 AWG             | 1.15 Ω/km                  | 12.5–13.5 mm | 0.33 kg/m    | 110–150 A guide       |
| Robotic welding lead cable 100/100 V<br>Automated welding cell lead 1 core 25 mm <sup>2</sup> | Automated welding cell lead | 25 mm <sup>2</sup> | 4 AWG             | 0.727 Ω/km                 | 13.9–14.9 mm | 0.43 kg/m    | 150–200 A guide       |
| Robotic welding lead cable 100/100 V<br>Automated welding cell lead 1 core 35 mm <sup>2</sup> | Automated welding cell lead | 35 mm <sup>2</sup> | 2 AWG             | 0.524 Ω/km                 | 15.3–16.3 mm | 0.54 kg/m    | 200–260 A guide       |
| Robotic welding lead cable 100/100 V<br>Automated welding cell lead 1 core 50 mm <sup>2</sup> | Automated welding cell lead | 50 mm <sup>2</sup> | 1/0 AWG           | 0.387 Ω/km                 | 17.0–18.0 mm | 0.70 kg/m    | 250–330 A guide       |
| Robotic welding lead cable 100/100 V<br>Automated welding cell lead 1 core 70 mm <sup>2</sup> | Automated welding cell lead | 70 mm <sup>2</sup> | 2/0 AWG           | 0.268 Ω/km                 | 18.8–19.8 mm | 0.92 kg/m    | 320–420 A guide       |

| Cable reference  | Welding duty                | Conductor size     | AWG / kcmil guide | Max DC resistance at 20 °C | OD guide     | Cable weight | Welding current guide |
|--|-----------------------------|--------------------|-------------------|----------------------------|--------------|--------------|-----------------------|
| Robotic welding lead cable 100/100 V Automated welding cell lead 1 core 95 mm <sup>2</sup> | Automated welding cell lead | 95 mm <sup>2</sup> | 3/0 AWG           | 0.193 Ω/km                 | 20.8–21.8 mm | 1.19 kg/m    | 400–520 A guide       |

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