



BATTERY PACK CABLE

ISO 19642

11 orderable sizes

|                                        |                                                              |                                                                   |
|----------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------|
| STANDARD<br>ISO 19642                  | VOLTAGE CLASS<br>600 V, 1 kV or specified high-voltage class | TEMPERATURE CLASS<br>-40 °C to +125 °C or specified class         |
| CONDUCTOR<br>Flexible copper conductor | INSULATION / JACKET<br>Orange high-voltage insulation        | CROSS-SECTION RANGE<br>2.5 mm <sup>2</sup> to 120 mm <sup>2</sup> |

Construction

- 1  Conductor – Flexible copper conductor · 276 × Ø0.4 mm
- 2  Insulation – High-voltage automotive insulation · Wall 0.8–1.2 mm

Size selection — all available cross-sections

| Cable reference                                       | Cross-section       | Conductor construction | Max DC resistance at 20 °C (Ω/km) | Voltage class                               | Insulation / sheath wall guide (mm) | Overall diameter guide (mm) | Bend radius guide  |
|-------------------------------------------------------|---------------------|------------------------|-----------------------------------|---------------------------------------------|-------------------------------------|-----------------------------|--------------------|
| EV Battery Pack Internal Cable Cu 2.5 mm <sup>2</sup> | 2.5 mm <sup>2</sup> | 50/0.25                | 7.6                               | 600 V, 1 kV or specified high-voltage class | 0.8–1.2                             | 4.05                        | 33 mm moving guide |
| EV Battery Pack Internal Cable Cu 4 mm <sup>2</sup>   | 4 mm <sup>2</sup>   | Fine stranded Cu       | 4.7                               | 600 V, 1 kV or specified high-voltage class | 0.8–1.2                             | 4.60                        | 37 mm moving guide |
| EV Battery Pack Internal Cable Cu 6 mm <sup>2</sup>   | 6 mm <sup>2</sup>   | 84/0.30                | 3.1                               | 600 V, 1 kV or specified high-voltage class | 0.8–1.2                             | 5.18                        | 42 mm moving guide |
| EV Battery Pack Internal Cable Cu 10 mm <sup>2</sup>  | 10 mm <sup>2</sup>  | 80/0.40                | 1.83                              | 600 V, 1 kV or specified high-              | 0.8–1.2                             | 6.10                        | 49 mm moving guide |

| Cable reference                                       | Cross-section       | Conductor construction | Max DC resistance at 20 °C (Ω/km) | Voltage class                               | Insulation / sheath wall guide (mm) | Overall diameter guide (mm) | Bend radius guide   |
|-------------------------------------------------------|---------------------|------------------------|-----------------------------------|---------------------------------------------|-------------------------------------|-----------------------------|---------------------|
|                                                       |                     |                        |                                   | voltage class                               |                                     |                             |                     |
| EV Battery Pack Internal Cable Cu 16 mm <sup>2</sup>  | 16 mm <sup>2</sup>  | 126/0.40               | 1.15                              | 600 V, 1 kV or specified high-voltage class | 0.8–1.2                             | 7.19                        | 58 mm moving guide  |
|                                                       |                     |                        |                                   |                                             |                                     |                             |                     |
| EV Battery Pack Internal Cable Cu 25 mm <sup>2</sup>  | 25 mm <sup>2</sup>  | 196/0.40               | 0.727                             | 600 V, 1 kV or specified high-voltage class | 0.8–1.2                             | 8.49                        | 68 mm moving guide  |
|                                                       |                     |                        |                                   |                                             |                                     |                             |                     |
| EV Battery Pack Internal Cable Cu 35 mm <sup>2</sup>  | 35 mm <sup>2</sup>  | 276/0.40               | 0.524                             | 600 V, 1 kV or specified high-voltage class | 0.8–1.2                             | 9.68                        | 78 mm moving guide  |
|                                                       |                     |                        |                                   |                                             |                                     |                             |                     |
| EV Battery Pack Internal Cable Cu 50 mm <sup>2</sup>  | 50 mm <sup>2</sup>  | 396/0.40               | 0.387                             | 600 V, 1 kV or specified high-voltage class | 1.2–1.6                             | 11.98                       | 96 mm moving guide  |
|                                                       |                     |                        |                                   |                                             |                                     |                             |                     |
| EV Battery Pack Internal Cable Cu 70 mm <sup>2</sup>  | 70 mm <sup>2</sup>  | 360/0.50               | 0.268                             | 600 V, 1 kV or specified high-voltage class | 1.2–1.6                             | 13.66                       | 110 mm moving guide |
|                                                       |                     |                        |                                   |                                             |                                     |                             |                     |
| EV Battery Pack Internal Cable Cu 95 mm <sup>2</sup>  | 95 mm <sup>2</sup>  | 475/0.50               | 0.193                             | 600 V, 1 kV or specified high-voltage class | 1.2–1.6                             | 15.45                       | 124 mm moving guide |
|                                                       |                     |                        |                                   |                                             |                                     |                             |                     |
| EV Battery Pack Internal Cable Cu 120 mm <sup>2</sup> | 120 mm <sup>2</sup> | 608/0.50               | 0.153                             | 600 V, 1 kV or specified high-voltage class | 1.2–1.6                             | 17.01                       | 137 mm moving guide |
|                                                       |                     |                        |                                   |                                             |                                     |                             |                     |