

## Data sheet for AMOSoft 1X25

### Application

Flexible double insulated single core conductor. Specifically designed for use in industrial processes. Suitable for use in short-circuit-proof installations, such as distribution panels and switching devices. AMOSoft is highly flexible and easy to work with.

Art. No: 6679  
 Conductor: IEC 60228,5  
 Construction: EN 50363,7  
 EN 50363,8  
 Flame retardant: 50575:2014 + A1:2016  
 CPR-class: Eca

### 25mm<sup>2</sup> Copper conductor acc. to IEC 60228,5

| Properties                 | Nominal Value | Unit  |
|----------------------------|---------------|-------|
| Wire in conductor, approx. | 180-189       | pcs   |
| Wire diameter              | 0,40          | mm    |
| Resistance, max at 20°C.   | 0,780         | Ω/km  |
| Copper weight              | 240           | Kg/km |

### Insulation of 25mm<sup>2</sup> conductor acc. to EN 50363,7

| Properties          | Nominal Value | Unit |
|---------------------|---------------|------|
| Material            | TPE           |      |
| Temperature range   | -40 to +90    | °C   |
| Nom. Wall thickness | 1,2           | mm   |
| Nom. Outer diameter | 8,6 ± 0,5     | mm   |
| Colour              | Natural       |      |

### Outer sheath of 1x25mm<sup>2</sup> conductor acc. to EN 50363,8

| Properties          | Nominal Value                | Unit |
|---------------------|------------------------------|------|
| Material            | TPE FR                       |      |
| Temperature range   | -40 to +90                   | °C   |
| Nom. Wall thickness | 1,2                          | mm   |
| Nom. Outer diameter | 11,0 ± 0,5                   | mm   |
| Colour              | Black (or customer's choice) |      |

### Specific properties

| Properties                      | Nominal Value                 | Unit |
|---------------------------------|-------------------------------|------|
| Voltage range U <sub>0</sub> /U | 0,6/1                         | kV   |
| Temperature range               | -40 to +90                    | °C   |
| Flame properties                | CPR-class <b>Eca</b>          | Pass |
| Halogen content                 | IEC 60754-1, -2               | Pass |
| Smoke Density                   | IEC 61034-2                   | Pass |
| Bending radius                  | 4 X OD                        | mm   |
| Marking                         | AMOSoft 1X25 0,6/1kV CE yy/ww |      |
| RoHS directive                  | Pass                          |      |
| Approval                        | CE, LVD 2014/35/EU            |      |

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