

HELUTRAIN® 3GKW Train-Cable, robust special single core, halogen-free, 0,6/1kV



Technical data

- Temperature resistant special-insulated wire
- **Temperature range**
flexing -35°C to +90°C
fixed installation -45°C to +120°C
- **Short-circuit temperature**
+250°C
- **Nominal voltage**
U₀/U 0,6/1 kV (AC)
U₀/U 0,9/1,8 kV (DC)
- **Test voltage**
3,5 kV
- **Minimum bending radius**
fixed installation for outer Ø
up to 10 mm 3x outer Ø
> 10 mm 4x outer Ø
flexing for outer Ø
up to 10 mm 5x outer Ø
> 10 mm 6x outer Ø

Cable structure

- Tinned copper, fine wire conductors, conform to DIN VDE 0295 cl.5 and IEC 60228 cl.5
- Core insulation from Polyolefin Copolymer, cross-linked
- Colour grey or green-yellow

Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- Resistant to mechanical influences in rough environmental conditions
- Good chemical durability with simultaneous high fire safety
- Reduction of toxic combustion gases and the spread of the fire source in case of fire increases protection against personal injury and property damage

Tests

- Flame test acc. to
DIN VDE 0482-332-3, BS 4066 part 3,
DIN EN 60332-3, IEC 60332-3 (previously
DIN VDE 0472 part 804 test method C)
- Flame retardant acc. to
DIN VDE 0482-331-1-2, DIN EN 60332-1-2,
IEC 60332-1
- Corrosiveness of combustion gases
acc. to DIN VDE 0482 part 267,
DIN EN 50267-2-2, IEC 60754-2
(equivalent DIN VDE 0472 part 813)
- Halogen-free acc. to DIN VDE 0482
part 267, DIN EN 50267-2-1, IEC 60754-1
(equivalent DIN VDE 0472 part 815)
- Smoke density acc. to DIN VDE 0482
part 1034-1+2, DIN EN 61034-1+2,
IEC 61034-1+2, BS 7622 part 1+2
(equivalent DIN VDE 0472 part 816)
- Oil- and gasoline resistant to
EN 50305
- Ozon resistant to EN 50305
- Low fire load (DIN 51900)
- No fluor (EN 60684-2)

Application

HELUTRAIN® 3 GKW train cable are Halogen-free and suitable for fixed and protected installation in rough environmental conditions inside and outside of rail vehicles. For connecting fixed and moving parts. Due to the flexibility and the small outer diameter suitable for fixed installation in small bending radii.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC..

Core colour grey

| Part no. | No. cores x cross-sec. mm ² | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 59114 | 1 x 0,5 | 2,0 | 4,8 | 9,0 | - |
| 59115 | 1 x 0,75 | 2,2 | 7,2 | 12,0 | - |
| 59116 | 1 x 1 | 2,4 | 9,6 | 14,0 | - |
| 59117 | 1 x 1,5 | 2,7 | 14,4 | 21,0 | - |
| 59118 | 1 x 2,5 | 3,4 | 24,0 | 31,0 | - |
| 59119 | 1 x 4 | 3,9 | 38,4 | 46,0 | - |
| 59126 | 1 x 6 | 4,6 | 57,6 | 68,0 | - |
| 59127 | 1 x 10 | 5,5 | 96,0 | 111,0 | - |
| 59128 | 1 x 16 | 7,1 | 154,0 | 166,0 | - |
| 59129 | 1 x 25 | 8,6 | 240,0 | 250,0 | - |
| 59130 | 1 x 35 | 9,8 | 336,0 | 350,0 | - |
| 59131 | 1 x 50 | 12,0 | 480,0 | 500,0 | - |
| 59132 | 1 x 70 | 14,2 | 672,0 | 690,0 | - |
| 59133 | 1 x 95 | 15,6 | 912,0 | 940,0 | - |
| 59134 | 1 x 120 | 17,6 | 1152,0 | 1180,0 | - |
| 59135 | 1 x 150 | 20,3 | 1440,0 | 1460,0 | - |

Core colour green-yellow

| Part no. | No. cores x cross-sec. mm ² | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|-----------------|---------------------|---------------------|---------|
| 53762 | 1 x 0,5 | 2,0 | 4,8 | 9,0 | - |
| 53763 | 1 x 0,75 | 2,2 | 7,2 | 12,0 | - |
| 53764 | 1 x 1 | 2,4 | 9,6 | 14,0 | - |
| 53765 | 1 x 1,5 | 2,7 | 14,4 | 21,0 | - |
| 53766 | 1 x 2,5 | 3,4 | 24,0 | 31,0 | - |
| 53767 | 1 x 4 | 3,9 | 38,4 | 46,0 | - |
| 53768 | 1 x 6 | 4,6 | 57,6 | 68,0 | - |
| 53769 | 1 x 10 | 5,5 | 96,0 | 111,0 | - |
| 53770 | 1 x 16 | 7,1 | 154,0 | 166,0 | - |
| 53771 | 1 x 25 | 8,6 | 240,0 | 250,0 | - |
| 53772 | 1 x 35 | 9,8 | 336,0 | 350,0 | - |
| 53773 | 1 x 50 | 12,0 | 480,0 | 500,0 | - |
| 53774 | 1 x 70 | 14,2 | 672,0 | 690,0 | - |
| 53775 | 1 x 95 | 15,6 | 912,0 | 940,0 | - |
| 53776 | 1 x 120 | 17,6 | 1152,0 | 1180,0 | - |
| 53777 | 1 x 150 | 20,3 | 1440,0 | 1460,0 | - |

Dimensions and specifications may be changed without prior notice. (RK01)