

# HELUTRAIN® 4GKW-AXplus

Train-Cable, robust special single core,  
halogen-free, 1,8/3kV, meter marking



HELUTRAIN 4GKW-AXplus 1x6QMM / 1,8/3kV WT915100V 001136143



## Technical data

- **Temperature range**  
fixed installation: -60°C to +120°C  
flexing: -35°C to +90°C  
short circuit: +200°C
- **Nominal voltage**  
U<sub>0</sub>/U 1,8/3 kV (AC)  
U<sub>0</sub>/U 2,7/5,4 kV (DC)
- **Test voltage**  
6,5 kV AC
- **Minimum bending radius**  
fixed installation for outer Ø  
up to 10 mm 5x outer Ø  
> 10 mm 6x outer Ø  
flexing for outer Ø  
up to 10 mm 7x outer Ø  
> 10 mm 8x outer Ø

## Cable structure

- Tinned copper conductor, fine wire stranded acc. to DIN VDE 0295 cl.5, BS 6360 cl.5 or IEC 60228 cl.5
- Core insulation of cross-linked polyolefin copolymer
- Outer sheath of cross-linked Elastomer
- Sheath colour black

## Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- ### 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)
  - No toxic gases (EN 50305)
  - Oil- and gasoline resistant to EN 50305
  - Ozon resistant to EN 50305
  - Low fire load (DIN 51900)
  - No fluor (EN 60684-2)
  - High voltage resistance and mechanical influences in rough environmental conditions
  - 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

## Note

- screened analogue type part no. 54092  
**HELUTRAIN-C 4GKW 1x35**

## Application

For fixed installation inside and outside of unprotected rail cars and buses. For connecting fixed and moving parts. Suitable for wiring of switchboards, distribution boards, power converters, electrical panels and blocks, resistor and brake blocks.

| Part no. | No. cores x cross-sec. mm² | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|----------------------------|-----------------|---------------------|---------------------|---------|
| 59262    | 1 x 1,5                    | 3,6             | 14,4                | 24,0                | -       |
| 59263    | 1 x 2,5                    | 4,0             | 24,0                | 34,0                | -       |
| 59264    | 1 x 4                      | 4,9             | 38,4                | 53,0                | -       |
| 59265    | 1 x 6                      | 5,5             | 57,6                | 74,0                | -       |
| 59266    | 1 x 10                     | 6,5             | 96,0                | 118,0               | -       |
| 59267    | 1 x 16                     | 8,7             | 153,6               | 182,0               | -       |
| 59268    | 1 x 25                     | 10,2            | 240,0               | 274,0               | -       |
| 59269    | 1 x 35                     | 11,5            | 336,0               | 379,0               | -       |

| Part no. | No. cores x cross-sec. mm² | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|----------------------------|-----------------|---------------------|---------------------|---------|
| 59312    | 1 x 50                     | 13,6            | 480,0               | 536,0               | -       |
| 59313    | 1 x 70                     | 16,0            | 672,0               | 729,0               | -       |
| 59314    | 1 x 95                     | 17,5            | 912,0               | 960,0               | -       |
| 59315    | 1 x 120                    | 20,0            | 1152,0              | 1203,0              | -       |
| 59316    | 1 x 150                    | 22,0            | 1440,0              | 1464,0              | -       |
| 59317    | 1 x 185                    | 24,1            | 1776,0              | 1802,0              | -       |
| 59318    | 1 x 240                    | 26,8            | 2304,0              | 2348,0              | -       |

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