Schaltbau AWG4/0 BLW-BP
Highly flexible, single-pole copper cable for industrial trucks

The single-insulated highly flexible AWG4/0 copper cable is the ideal partner in combination with the proven Schaltbau LV500 charging connector.

The product complies with the UL 2726 standard and is specified for use in internal combustion engine and battery-electric powered industrial trucks and other mobile battery applications. The TPE insulation used is highly resistant to acids and alkalis and equally enables use with e.g. nickel-cadmium or lithium-ion batteries.

The highly flexible cable is suitable for efficient installation in vehicles or large vehicle battery packs.

Features
- Single-insulated highly flexible AWG4/0 copper cable
- Highly resistant TPE insulation against acids and alkalis
- Designed for use in vehicles
- Complies with UL 2726

Do you need pre-assembled cables in the desired length? Please contact us.

**Material properties**

Cross-section | A | AWG4/0 or 107 mm²
Design | Number of *Ø | 3,430 single strands * 0.2 mm
Tensile strength | $F_s$ | $\geq$ 7.5 kN
Electrical resistance | $R_{el}$ | $\leq$ 0.165 $\Omega$/km
Wall thickness insulation | $d_{min}$ | 2.31 mm
Rated wall thickness | $d$ | 3.5 mm
Outer diameter | $D$ | 21.4±0.4 mm
Cable weight (incl. cable sheath) | | 1,176 kg/km
Copper insert weight | | 960 kg/km

Dimensions in mm

**Specifications**

**Electrical specifications**

| Rated voltage | $U_0 / U @ T_{max}$ = 60°C | 100 V / 100 V |
| Test voltage cable | $U_{test} @ T = 20°C$ | 3,600 V |
| Operating voltage potential-free | $U_{max} @ T = 60°C$ | 120 V |
| Current carrying capacity | DIN VDE 0298-0 fulfills |

**Mechanical specifications**

| Conductor material | DIN 1302 | E-CU ETP1 |
| Conductor insulation | ASTM 2240 | Plastic, uv and sulphuric acid resistant TPE, very flexible, shore hardness A75 |
| Construction | EN 60228 | Class 6 (very flexible): outer strand bundle Class 5 (flexible): inner strand bundle |
| Permissible torsion | max. | $\alpha \leq 25° @ 100$ mm length |
| Allowable bending diameter | min. | 4.5 * $D$ |
| Flame retardancy | IEC 60695-10-11 U 94 | HB75 HB |
| Temperature range | | -40°C...+105°C |

Dimensions in mm

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**New**

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