

NEW

PRODUCT FLYER A284.en

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.

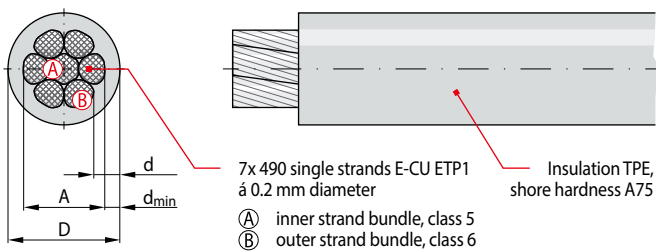
The highly flexible cable is suitable for efficient installation in vehicles or large vehicle battery packs.

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.

Dimension diagram, material properties



Specifications

Electrical specifications		
Rated voltage	$U_0 / U @ T_{max} = 60^\circ C$	100 V / 100 V
Test voltage cable	$U_{Test} @ T = 20^\circ C$	3,600 V
Operating voltage potential-free	$U_{max} @ T = 60^\circ C$	120 V
Current carrying capacity	DIN VDE 0298-0	fulfils

Material properties		
Cross-section	A	AWG4/0 or 107 mm ²
Design	Number of * Ø	3,430 single strands * 0.2 mm
Tensile strength	F _z	≥ 7.5 kN
Electrical resistance	R _{ads}	≤ 0.165 Ω/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

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.	α ≤ 25° @ 100 mm length
Allowable bending diameter	min.	4.5 * D
Flame retardancy	IEC 60695-10-11 UL 94	HB75 HB
Temperature range		-40° C ... +105° C

Dimensions in mm