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..

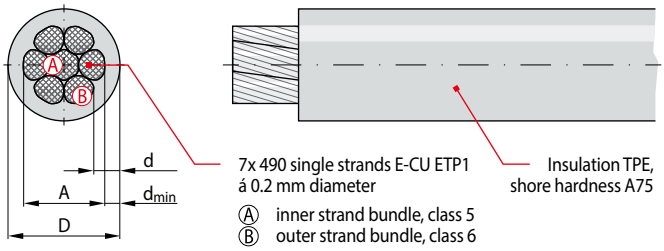
The highly flexible cable is suitable for efficient installation in vehicles or large vehicle battery packs.

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



Material properties		
Cross-section	A	AWG4/0 or 107 mm²
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

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	fulfils

Mechanical specifications		
Conductor material	DIN 1302	E-CU ETP1
Conductor insolation	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

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