

Twinflex Highly Flexible Automotive Battery Cables

Applications

For indoors and outdoors, in dry as well as wet location on motorised vehicles, or battery powered equipment such as forklifts and field conveyors.

Characteristics

Voltage Rating: Uo/U 450/750V

Temperature Rating Flexed: -20°C to +70°C

Minimum Bending Radius Flexed: 6 x overall diameter



IECEE CBTL

IECE

The Cable Lab[®] -AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime. S

Sustainability commitment

We are on a journey to Net Zero. We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals. Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



ISO/IEC 17025

Regulatory Compliance

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].

Construction

Conductor: Class 6 extra flexible copper conductor

Insulation: TPE (Thermoplastic Elastomer)

Sheath: PVC (Polyvinyl Chloride)

Core Identification: Red and Black

Sheath Colour: Transparent

Standards

VDE 0250





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Conductors	:
conductors	•

Class 6 Flexible Copper	Conductors for Single Core and	Multi-Core Cables
NOMINAL CROSS SECTIONAL	MAXIMUM DIAMETER OF WIRES	MAXIMUM RESISTANCE OF CON-
AREA mm	IN CONDUCTOR mm	DUCTOR AT 20ºC ohms/km
2.5	0.16	7.89
4	0.16	4.95
6	0.21	3.3
10	0.21	1.91
16	0.21	1.21
25	0.21	0.78
35	0.21	0.554
50	0.31	0.386
70	0.31	0.272
95	0.31	0.206

Dimensions:

mm	no. of cores	Nominal cross sectional arse	Nominal thickness of insulation	Nominal thick- ness of sheath	Nominal overall diameter	Nominal weight
2.5mm ²	2	2.5	1	1	4.4 x 10.8	90
4mm²	2	4	1	1	6.5 x 14.5	10
6mm²	2	6	1	1	7.1 x 15.5	190
6mm²	2	5	1	1.2	7.9 x 17.6	294
10mm²	2	16	1	1.2	10 x 21.5	420
25mm²	2	25	1.1	1.3	11.2 x 24.3	672
35mm²	2	35	1.1	1.3	12.4 x 25.9	824
50mm ²	2	50	1.2	1.4	14.5 x 30.5	1132
70mm²	2	75	1.6	1.6	17.2 x 36.5	1600
95mm²	2	95	1.6	1	18.4 x 38.6	2080

Electrical Characteristics

No. Of cores	Nominal Cross sectional Area	Current Rating at 60°C
2	2.5	32
2	4	42
2	6	54
2	10	73
2	16	98
2	25	129
2	35	158
2	50	198
2	70	245
2	95	292

De-Rating Factors

Ambient Temperature	25°C	30°C	35°C	40°C	45°C	
De-rating factor		1	0.96	0.9	0.88	0.83