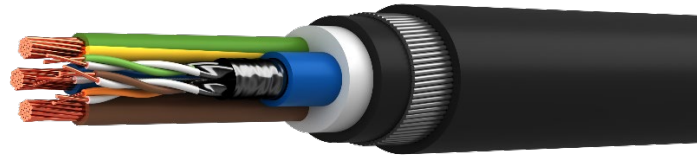


Technical Document
Electric Vehicle Cable Armoured
3 x 10mm² + Cat 6A F/FTP SWA LSNH Black

webro

Part Number: 050105E-LSNH-SWA-BLK
Description: Electric Vehicle Cable 3 x 10mm² +
Cat 6A F/FTP SWA Low Smoke Non-Halogen Black



Product Construction

Data - Cat 6A F/FTP

Conductor Material	:	Bare Copper
Conductor Size	:	Solid, 23(1)awg
Insulation Material	:	Skin/Foam/Skin Polyethylene (SFSPE)
Number of Pairs	:	4
Pair Colours	:	Blue/White; Orange/White; Green/White; Brown/White
Common Drain Wire	:	Tinned Copper, 1/0.4mm
Screening 1	:	Ind. Aluminium Foil Screened Pairs, ≥ 100% Coverage
Screening 2	:	Overall Aluminium Foil, 100% Coverage
Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Sheath Colour	:	Black



Power - 3 x 10mm²

Conductor Material	:	Bare Copper
Conductor Stranding	:	10mm ² , Class 2 to IEC 60228
Insulation Material	:	Cross Linked Polyethylene (XLPE)
Number of Cores	:	3
Core Colours	:	Blue, Brown, Green/Yellow

Overall Construction

Bedding Material	:	Low Smoke Non-Halogen (LSNH)
Armour	:	Steel Wire Armour (SWA)
Sheath Material	:	Low Smoke Non-Halogen (LSNH)
Sheath Colour	:	Black

Mechanical Characteristics

Overall Diameter	:	23.8mm ± 1.2mm
Temperature Range	Fixed	-20°C to +70°C
	Flexing	-5°C to +70°C
Bend Radius	:	12 x Overall Diameter
Weight	:	1103 kg/km

Publication Date: 15/05/2023
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Written by: GB
Authorised by: GB

Webro Cables & Connectors Ltd

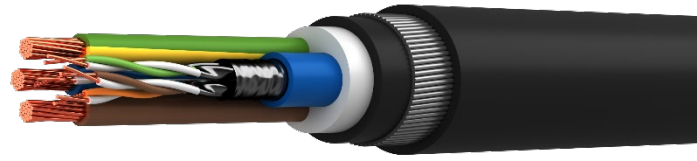
Vision House, Meadow Brooks Business Park, Meadow Lane, Long Eaton, Nottingham NG10 2GD, UK
Tel: +44 (0)115 9724483 | Fax: +44 (0)115 9461230 | sales@webro.com | www.webro.com

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Description: Electric Vehicle Cable 3 x 10mm² +
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Electrical Characteristics

Data – Cat 6A F/FTP

Max. Conductor DC Resistance	:	≤ 9.5 Ω/km @ 20°C
Max. Resistance Unbalanced	:	< 2%
Max. Insulation Resistance	:	> 5000 MΩ x m
Mutual Capacitance	:	< 56 pF/m
Capacitance Unbalanced	:	1600 pF/km
Impedance @ 100 MHz	:	100 Ω ± 5
Velocity of Propagation	:	76 %
Delay Skew	:	< 25 ns / 100m
Voltage Rating	:	125V

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS – NEXT (dB)	ACR (dB)	PS – ACR (dB)	ACRF (dB)	PS-ACRF (dB)	Return Loss (dB)
1	≤ 2.0	≥ 95	≥ 92	≥ 90	≥ 87	≥ 100	≥ 97	25
4	≤ 3.6	≥ 95	≥ 92	≥ 90	≥ 87	≥ 100	≥ 97	25
10	≤ 5.4	≥ 95	≥ 92	≥ 85	≥ 82	≥ 90	≥ 87	28
100	≤ 18.3	≥ 87	≥ 84	≥ 75	≥ 72	≥ 75	≥ 72	25
200	≤ 25.0	≥ 87	≥ 84	≥ 75	≥ 72	≥ 70	≥ 67	25
250	≤ 29.1	≥ 85	≥ 82	≥ 52	≥ 49	≥ 65	≥ 62	23
400	≤ 37.4	≥ 75	≥ 72	≥ 41	≥ 48	≥ 55	≥ 52	23
500	≤ 41.5	≥ 75	≥ 72	≥ 30	≥ 27	≥ 55	≥ 52	21

Power – 3 x 10mm²

Conductor DC Resistance @ 20°C	:	≤ 1.83 Ω/km
Short Circuit Rating (1sec)	:	1.40kA
Current Rating	Direct in Ground :	92A
	In Duct :	75A
	In Air :	82A
Volt Drop Three Phase AC	:	4.0 mV/a/m
Test Voltage	:	3.5kV
Voltage Rating	:	0.6/1kV

Certifications & Standards

UV Resistance	:	ISO 4892-2 & ISO 4892-3
Flame Retardancy	:	BS EN 60332-1-2
Low Smoke	:	BS EN 61034-2
Halogen Gas	:	BS EN 60754-1&2
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Eca to BS EN 50575:2014+A1:2016

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