



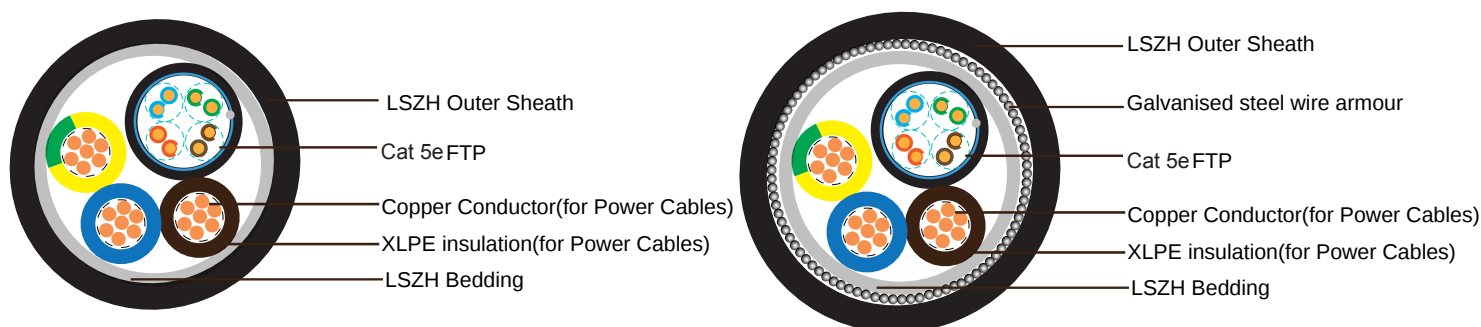
Cat5e+Power Cable LSZH Sheathed Flame Retardant Composite EV Ultra Cable

FTX-EV-CAT5E*** (Core) X*** (cross section)
FTX-EV-CAT5E*** (Core) X*** (cross section) SWA

Application:

This cable is designed for use in the installation of electric vehicle charge points. The cable incorporates power conductors and an enhanced Cat 5 screened data cable, encapsulated in a double sheathed design for extra protection. Whilst designed for use in electric vehicle charge points, the cable is also suitable for other installations where power and data is required.

Construction:



CAT5E FTP 4x2x24AWG

Conductor	Solid copper conductor
Insulation	Polyethylene
Pairs	Two insulated conductors uniformly twisted together
Overall Shield	Aluminum polyester tape+0.5mm Drain wire
Sheath	LSZH sheath. nominal outer diameter 6.8 mm
Sheath Color	Black

Power Cable

Conductor	Plain bare annealed copper conductor, Stranded according to BS EN/IEC 60228 Class 2.
Insulation	Thermosetting, XLPE Type GP8 to BS 7655-1.3
Insulation Color	3 Core: Blue, Brown, Yellow/Green 5 Core: Blue, Brown, Black, Grey, Yellow/Green
Voltage	600/1000V



Element Assembly

Bedding	LSZH compound
Armour	Galvanised steel wire armour (where applicable)
Outer Sheath	Extruded layer of LSZH polymeric material LTS 4 according to BS 7655-6.1.
Sheath Color	Black

Electrical and Physical Properties @20°C:

Cat5e

FREQ (MHz)	NEXT(dB/100m) Minimum Value/Typical Value/ Standard Value	IL (dB/100m)	SRL (dB/100m) Minimum Value/Typical Value/ Standard Value
1	64.0/71.0/62.0	2.0	24.5/26.0/23.0
4	55.0/62.0/53.0	4.0	24.5/26.0/23.0
8	49.5/57.0/48.0	5.7	24.5/26.0/23.0
10	49.0/56.0/47.0	6.4	24.5/26.0/23.0
16	44.9/52.0/44.0	8.2	24.5/26.0/23.0
20	42.5/48.0/42.0	9.2	24.5/26.0/23.0
25	42.0/48.0/41.0	10.3	24.5/26.0/23.0
31.25	40.6/48.0/39.0	11.6	22.5/24.0/21.0
62.5	36.1/43.0/35.0	16.9	19.5/22.0/18.0
100	34.0/40.0/32.0	21.8	17.5/20.0/16.0

Power Cable

Electrical Resistance: 12.1 Ohm/km

Insulation Resistance: ≥5500 MOhm×km

Element Assembly:

Min Bending Radius: 420mm

Operating Temperature: -20°C/+80°C

Characteristic Impedance	100 Ohm±15%
Nominal Velocity of Propagation (NVP)	69%
Max. Dc Resistance	9.38 Ohm/100m
Max. Resistance Unbalance	5%
Max. Mutual Capacitance:	5.6 nF/100m
Maximum Capacitance Unbalance	330 pF/100m
Max. Propagation Delay Skew	30 ns/100m
Max. Propagation Delay	536 ns/100m@100 mhz
Max. Pulling Load	80N

Fire Performance:

Low Smoke Capacity: IEC61034-1/2

Halogen Free: IEC60754-1/2

Flame Propagation: IEC 60332-1&IEC60332-3-24



EV Ultra Cables

Dimensions

No. of Cores × Nominal Cross Section	Class of Conductor	Nominal Diameter Over Bedding	Nominal Armour Diameter	Nominal Overall Diameter	Nominal Weight	Maximum Current Rating (3 phase)
No. × mm ²	-	mm	mm	mm	kg/km	A
Unarmoured						
3×6+cat 5e FTP	2	13.6	N/A	16.0	410	52
3×10+cat 5e FTP	2	15.0	N/A	17.6	492	71
5×6+cat 5e FTP	2	15.5	N/A	18.0	500	52
5×10+cat 5e FTP	2	18.4	N/A	19.8	710	71
Armoured						
3×6+cat 5e FTP	2	13.6	1.25	18.6	700	52
3×10+cat 5e FTP	2	15.0	1.25	20.2	835	71
5×6+cat 5e FTP	2	15.5	1.25	20.5	836	52
5×10+cat 5e FTP	2	18.4	1.25	23.5	1085	71

Colour Code

Insulation Colour:

- » 3 Core: Blue, Brown, Yellow/Green
- » 5 Core: Blue, Brown, Black, Grey, Yellow/Green

Sheath Colour: Black