

## 3x6.0mm<sup>2</sup> + Cat.6A F/FTP LAN Cable LSZH – EV Cable



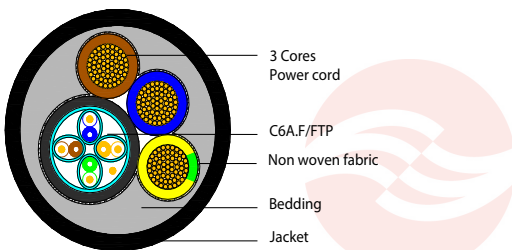
### Application

The Ascent EV charging cable has four screened Cat 6 data pairs, preparing you for the needs of today and tomorrow. This design is also flexible enough to be used in confined areas for ease of termination. This cable is manufactured with low smoke and fume materials.

### Standards

**IEC 60502-1, IEC/EN 60228, TIA/EIA 568-B.10, IEC 61158-5, UV Resistant to EN 50396**  
**Abrasion Resistant to EN 50289-3-7, Low Smoke Zero Halogen according to IEC/EN 61034-1/2, IEC/EN 60754-1/2**  
**Flame retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-24**

### Cross section



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### Construction

Wire A: Cat.6A F/FTP

#### Conductor

Material: Bare Copper  
 Stranding: Solid  
 Wire Gage: 23AWG

#### Insulation

Material: Foam PE (S-F-K)  
 Dia. (+/-0.05mm): 1.35  
 Colour Code: WH/BL & BL  
 WH/OG & OG  
 WH/GN & GN  
 WH/BN & BN

#### Paired

Individually Pair Screened: AL/P

#### Cabling

Order of the pair: see cross section  
 Drain Wire: TC Ø 0.4mm  
 Shielding: AL/P

#### Sheath

Material: PVC  
 Dia. (+/-0.30mm): 7.40

### Construction

Wire B: 3C x 6.0mm<sup>2</sup> (IEC 60228 Class 5)

#### Conductor

Material: Bare Copper  
 Stranding: Stranded  
 Dia. (+/-0.010mm): 0.30\*84

#### Insulation

Material: XLPE  
 Dia. (+/-0.10mm): 4.50  
 Colour Code: BN/BL&YL(GN)

#### Cabling

Order of the pair: see cross section  
 Wrapping: non-woven fabric

#### Bedding

Material: PVC  
 Dia. (+/-0.30mm): 14.90

#### Total hybrid cable

#### Overall jacket

Material: LSZH  
 Dia. (+/-1.00mm): 17.40

## Electrical Characteristics

3C x 6.0mm<sup>2</sup>

### Test Item (Test Item(20°C))

Test Item	Units	Spec
1. Max. Conductor DC Resistance	Ω/km	3.30
2. Dielectric Strength between Pairs	kV/5min	AC 2.5
3. Maximum current rating	A	58
	single phase	52
	3 phase	7.9
4. Voltage drop	mV/A/m	6.8
	single phase	
	3phase	

### CAT. 6A F/FTP

#### Reference Standard: ANSI/TIA-568.2-D

1. Max. Conductor DC Resistance	Ω/km	93.8
2. Max. Unbalance of Pair DC Resistance	%	2.5
3. Dielectric Strength between Pairs	kV/min	DC1.0
4. Min. Insulation Resistance	MΩ·km	5000
5. Max. Pair Mutual Capacitance	nF/100m	5.6
6. Max. Pair Capacitance Unbalance	pF/100m	330
7. Impedance	Ω	100±15
	1 to 250MHz	100±22
	250 to 500MHz	

FREQUENCY (MHz)	Min. RL (dB)	Max. IL (dB/100m)	Min. NEXT (dB)	Min. PS NEXT (dB)
1	20.0	2.1	74.3	72.3
4	23.0	3.8	65.3	63.3
8	24.5	5.3	60.8	58.8
10	25.0	5.9	59.3	57.3
16	25.0	7.5	56.2	54.2
20	25.0	8.4	54.8	52.8
25	24.3	9.4	53.3	51.3
31.25	23.6	10.5	51.9	49.9
62.50	21.5	15.0	47.4	45.4
100	20.1	19.1	44.3	42.3
200	18.0	27.6	39.8	37.8
250	17.3	31.1	38.3	36.3
300	16.8	34.3	37.1	35.1
400	15.9	40.1	35.3	33.3
500	15.2	45.3	33.8	31.8

FREQUENCY (MHz)	Min. ELFEXT (dB)	Max. PS ELFEXT (dB)	Max. Delay (ns/100m)	Max. Delay skew (ns/100m)
1	67.8	64.8	570	45
4	55.8	52.8	552	45
8	49.7	46.7	547	45
10	47.8	44.8	545	45
16	43.7	40.7	543	45
20	41.8	38.8	542	45
25	39.8	36.8	541	45
31.25	37.9	34.9	540	45
62.50	31.9	28.9	539	45
100	27.8	24.8	538	45
200	21.8	18.8	537	45
250	19.8	16.8	536	45
300	18.3	15.3	536	45
400	15.8	12.8	536	45
500	13.8	10.8	536	45

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.