

3x6.0mm² + 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.

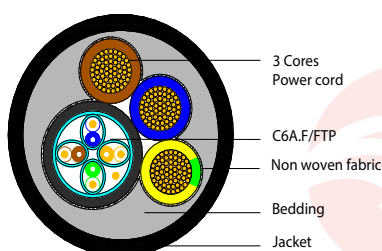
Standards

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



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
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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 6.0mm² (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 6.0mm²

Test Item (Test Item(20°C))

1. Max. Conductor DC Resistance
2. Dielectric Strength between Pairs
3. Maximum current rating
4. Voltage drop

single phase
3 phase
single phase
3phase

Units

Ω/km
kV/5min
A
A
mV/A/m
mV/A/m

Spec

3.30
AC 2.5
58
52
7.9
6.8

CAT. 6A F/FTP

Reference Standard: ANSI/TIA-568.2-D

1. Max. Conductor DC Resistance
2. Max. Unbalance of Pair DC Resistance
3. Dielectric Strength between Pairs
4. Min. Insulation Resistance
5. Max. Pair Mutual Capacitance
6. Max. Pair Capacitance Unbalance
7. Impedance

1 to 250MHz
250 to 500MHz

Ω/km
%
kV/min
MΩ·km
nF/100m
pF/100m
Ω
Ω

93.8
2.5
DC1.0
5000
5.6
330
100±15
100±22

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.