

CAT6 FLAT LIFT TRAVEL CABLE

CAT 6 Elevator Cable

APPLICATIONS

This is used as Elevator data cables in elevators. Supports all Cat6/Class-e applications. (eg. 10 Base-T, 1000 Base-T). Elevator Data Lan Cable optimized for RJ45 plug systems supporting AWG 23 standard wires.

CONSTRUCTION

Conductor: Bare Copper Wires

Cross Sectional Area: 23 AWG

Insulation: PVC, Black or Grey

Data Element: AWG23

Conductor: Bare Copper wires

Insulation: PE

Core Code: Pair Twisting

Colours: 1 Pair: Blue/White - Blue

2 Pair: Orange/White - Orange

3 Pair: Green/White - Green

4 Pair: Brown / White - Brown

Sheath: PVC. Black or Grey

CHARACTERISTICS

Voltage Rating : 300

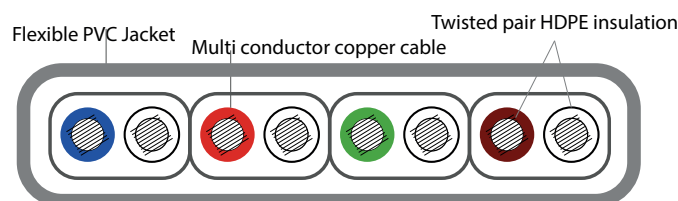
Temperature Limits: Fixed: -20°C to +70°C

Minimum Bending Radius:

As per Cable Manufacturer's Data Sheet



CAT6 Elevator Cable



CORE IDENTIFICATION

Pair 1: ■ Red ■ Black

Pair 1: ■ Green □ white

Should not be installed at temperatures below 0°C

Electrical Characteristics

Conductor resistance (7100m @ 20 J)	Max.	9.5	
DC resistance unbalance (%)	Max.	4	
Pair-to-ground capacitance unbalance (pF/km)	Max.	1600	
Delay skew (ns/100m)	Max.	45	4 ≤ f ≤ 250MHz
Insertion Loss (dB/100m)	Max.	$82 \cdot f + 0.0169 \cdot f^{0.25} + f$	1 ≤ f ≤ 250MHz
Pair to Pair NEXT (dB/100m)	Min.	$75.3 - 15 \cdot \log(f)$	1 ≤ f ≤ 250MHz
Power Sum pr-pr NEXT (dB/100m)	Min.	$72.3 - 15 \cdot \log(f)$	1 ≤ f ≤ 250MHz
ELFEXT (dB/100m)	Min.	$68 - 20 \cdot \log(f)$	1 ≤ f ≤ 250MHz
Power Sum ELFEXT (dB/100m)	Min.	$65 - 20 \cdot \log(f)$	1 ≤ f ≤ 250MHz
Return Loss (dB)	Min.	$20 + 5 \cdot \log(f)$	1 ≤ f ≤ 250MHz
Propagation Delay (ns/100m)	Max.	25	10 ≤ f ≤ 20MHz
		$25 - 7 \cdot \log(f / 20)$	20 ≤ f ≤ 250MHz
		534 + 36 H	1 ≤ f ≤ 250MHz

Electrical Properties

Rated Voltage	100/100V
Conductor resistance	max. 270 ohms/km at 20°C
Impedance	100 ± 15 Ohm
Capacitance	43pF/m

Mechanical Properties

Overall Dimensions	Approx. 12 x 5.0 mm
Weight	Approx. 90 kg/ km
Copper Content	30kg/km
Free Suspension Length	Max. 45 m
Travel Height	Max. 120m
Running Speed	Max. 4m/s
Operating Temperature	-20°C + +70°C
Bending Radius	Min. 8 x Thickness of the Cable
Supply Length	305m / 500m

Reference Standards

Flammability: Comply to IEC 60332-1, VW-1 / IEC 60228

Comply to RoHS

Ordering Information

Part No.	Description
NTLTC6U	NETCON, Cat6, Flat Lift Travel Multi Conductor Copper cable, PVC, 305m