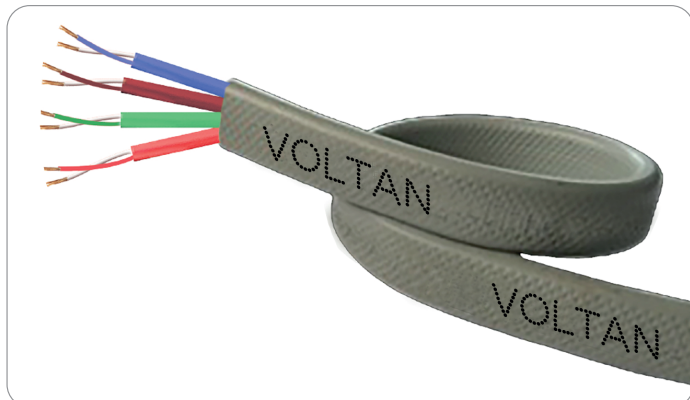


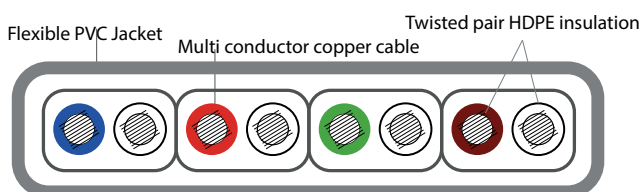


#### APPLICATIONS

Voltan Cat6 elevator cables are commonly used in elevator systems to transmit data between different components of the elevator system, such as control panels, sensors and communication devices. Some common applications of Cat6 elevator cables include, monitoring and Surveillance System, Data Transmission, Integration with Building Management Systems, Audio Video System, IP Transmission devices and Equipment.

#### ELECTRICAL PROPERTIES

|                                      |               |
|--------------------------------------|---------------|
| Resistance                           | 7.0Ω/100 m    |
| Unbalance Resistance of pair         | ≤ 2%          |
| Unbalance Resistance of pairs        | ≤ 4%          |
| Dielectric of Conductors             | DC1.0kV*1min  |
| Dielectric conductor to Ground       | /             |
| Insulation Resistance 20°C 500V      | ≥ 5000 MΩ.KM  |
| Mutual Capacitance of a Pair         | ≤ 5.6 pF/100m |
| Pair to Ground Unbalance Capacitance | /             |



#### ELEVATOR CAT6 FLAT FLEXIBLE CABLE

|              |             |   |                    |                     |   |                       |
|--------------|-------------|---|--------------------|---------------------|---|-----------------------|
| Conductor    | Material    |   | Diameter           |                     |   |                       |
|              | Copper      |   | 23AWG 0.56mm       |                     |   |                       |
| Insulation   | Material    |   | Diameter           |                     |   | Thickness             |
|              | HDPE        |   | 1.0 mm             |                     |   | 0.18 mm               |
| Twisted Pair | Lay Length  | 1 | 12 mm              | Colour of each Pair | 1 | White-Blue / Blue     |
|              |             | 2 | 13 mm              |                     | 2 | White-Orange / Orange |
|              |             | 3 | 16 mm              |                     | 3 | White-Green / Green   |
|              |             | 4 | 20 mm              |                     | 4 | White-Brown / Brown   |
| Separate     | YES         |   |                    |                     |   |                       |
| Mylar Tape   | NO          |   |                    |                     |   |                       |
| Drain Wire   | NO          |   |                    |                     |   |                       |
| Shielding    | NO          |   |                    |                     |   |                       |
| Rip Cord     | YES         |   |                    |                     |   |                       |
| Rip Cord     | Material    |   | Diameter           |                     |   | Thickness             |
|              | PVC/LSZH/PE |   | 6.5* 13.5 + 0.2 mm |                     |   | 0.6 mm                |

#### REFERENCE STANDARDS

Reference Standard- EN50288-5-1, ANSI/TIA/EIA-568-5-2000, EN 55032, EN 55035, Frequency: 250 MHz, ISO/IEC 11801:2011 (Ed 2.2) Class E

#### TRANSMISSION PERFORMANCE

| Frequency | Phase Delay T | Phase Delay Skew ΔT | Insertion Loss IL | TCL  | Near End Crosstalk Loss NEXT | Power Sum NEXT PS NEXT | ACR-F      | PS ACR-F   | Fitted Characteristic Impedance Zc |             | Characteristic Impedance Zcm |            | Return Loss RL | Structure Return Loss SRL |
|-----------|---------------|---------------------|-------------------|------|------------------------------|------------------------|------------|------------|------------------------------------|-------------|------------------------------|------------|----------------|---------------------------|
| MHz       | ≤ dB /100m    | ≤ ns /100m          | ≤ dB /100m        | dB   | ≥ dB /100m                   | ≥ dB /100m             | ≥ dB /100m | ≥ dB /100m | Max. m Ω/m                         | Min. m Ω /m | Max. m Ω/m                   | Min. m Ω/m | ≥ dB           | ≥ dB                      |
| 1         | 570           | 45                  | 2                 | 50   | 74.3                         | 72.3                   | 68         | 65         | 113                                | 95          | 115                          | 85         | 20             | 30                        |
| 4         | 552           | 45                  | 3.8               | 44   | 65.3                         | 63.3                   | 56         | 53         | 109                                | 95          | 115                          | 85         | 23             | 30                        |
| 8         | 547           | 45                  | 5.3               | 41   | 60.8                         | 58.8                   | 49.9       | 46.9       | 107.8                              | 95          | 115                          | 85         | 24.5           | 30                        |
| 10        | 545           | 45                  | 6                 | 39   | 59.3                         | 57.3                   | 48         | 45         | 107.5                              | 95          | 115                          | 85         | 25             | 30                        |
| 16        | 543           | 45                  | 7.6               | 38   | 56.2                         | 54.2                   | 43.9       | 40.9       | 107                                | 95          | 115                          | 85         | 25             | 30                        |
| 20        | 542           | 45                  | 8.5               | 37   | 54.8                         | 52.8                   | 42         | 39         | 106.8                              | 95          | 115                          | 85         | 25             | 30                        |
| 25        | 541           | 45                  | 9.5               | 36   | 53.3                         | 51.3                   | 40         | 37         | 106.6                              | 95          | 115                          | 85         | 24.3           | 29                        |
| 31.25     | 540           | 45                  | 10.7              | 35.1 | 51.9                         | 49.9                   | 38.1       | 35.1       | 106.4                              | 95          | 115                          | 85         | 23.6           | 28.1                      |
| 62.5      | 539           | 45                  | 15.4              | 32   | 47.4                         | 54.4                   | 32.1       | 28.8       | 106                                | 95          | 115                          | 85         | 21.5           | 25.1                      |
| 100       | 538           | 45                  | 19.8              | 30   | 44.3                         | 42.3                   | 28         | 25         | 105.8                              | 95          | 115                          | 85         | 20.1           | 23                        |
| 200       | 537           | 45                  | 29                | 27   | 39.8                         | 37.8                   | 22         | 19         | 105.6                              | 95          | 115                          | 85         | 18             | 20                        |
| 250       | 536           | 45                  | 32.8              | 26   | 38.3                         | 36.3                   | 20         | 17         | 105.5                              | 95          | 115                          | 85         | 17.3           | 19                        |

#### ORDERING INFORMATION

| Part No.   | Description                                                                         |
|------------|-------------------------------------------------------------------------------------|
| NTVLC623P  | Cat6 Flat lift travel multi conductor Flexible cable, 23 Awg, 250 Mhz, PVC, 305mtr  |
| NTVLC6A23P | Cat6A Flat lift travel multi conductor Flexible cable, 23 Awg, 500 Mhz, PVC, 305mtr |