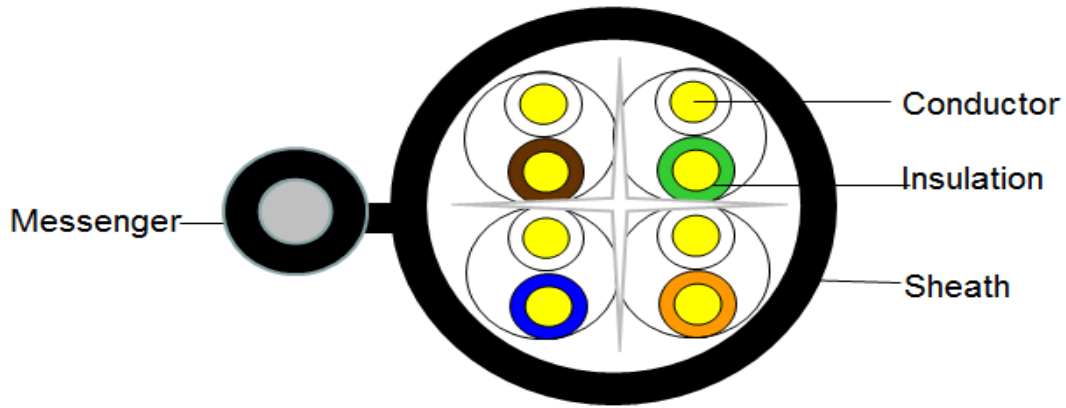


SCP PART#: CAT6-AER



Regulatory EU RoHS 2011/65 EU Compliant

Application: Lan Cable

Construction Characteristics:

| | | |
|-------------------------------------|---------------|---|
| Conductor | Material | Solid Bare Copper |
| | Size | 23AWG X 4P |
| | Construction | 1/0.55+/-0.005mm |
| Insulation | Material | HDPE |
| | Min.Thickness | 0.200mm |
| | AVG.Thickness | 0.220mm |
| | Diameter | 1.03+/-0.01mm |
| | Colors | Blue- White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown |
| Sheath | Material | LLDPE |
| | Thickness | 0.70+/-0.05mm |
| | U.V Stability | U.V Resistant |
| | Diameter | 6.5+/-0.40mm |
| | Rip Cord | Nylon |
| | Color | Black |
| Messenger | | |
| Conductor | Material | Galvanize Steel |
| | Construction | 1/1.30+/-0.01mm |
| Sheath | Material | LLDPE |
| | AVG.Thickness | 0.65mm |
| | Diameter | 2.6+/-0.10mm |
| | Color | BLACK |
| Assembly(CAT6+Messenger) : With "8" | | |

Electrical & Physical Characteristics:

| | |
|--------------------------------------|------------------------|
| Operating Temperature Range | - 20°C +70°C |
| Conductor Resistance | Max 72.2ohm/km at 20°C |
| Dielectric Strength | Min AC1.5KV |
| Spark Test | 5.0KV |
| DC Resistance Unbalance | Max 5% |
| Pair-to-Ground Capacitance Unbalance | Max 3300pF/km |
| Characteristic Impedance | 100+/-150HM |
| Nominal Velocity of Propagation(%) | 67~69 |
| Propagation Delay | Max 536ns/100m |
| Delay Skew | Max 45ns/100m |

Performance

| ITEM Frequency | Attenuation n Max (dB) | NEXT Min (dB) | PS NEXT Min (dB) | ACR Min (dB) | RL Min (dB) | ELFEXT Min (dB) | PS ELFEXT Min (dB) | PSACR Min (dB) |
|-------------------|------------------------------|------------------|---------------------|-----------------|----------------|--------------------|--------------------------|-------------------|
| 1 | 2 | 74.3 | 72.3 | 72.3 | 20 | 67.8 | 64.8 | 70.3 |
| 4 | 3.8 | 65.3 | 63.3 | 61.5 | 23 | 55.8 | 52.8 | 59.5 |
| 8 | 5.3 | 60.8 | 58.8 | 55.5 | 24.5 | 49.7 | 46.7 | 53.5 |
| 10 | 6 | 59.3 | 57.3 | 53.3 | 25 | 47.8 | 44.8 | 51.3 |
| 16 | 7.6 | 56.2 | 54.2 | 48.6 | 25 | 43.7 | 40.7 | 46.6 |
| 20 | 8.5 | 54.8 | 52.8 | 46.3 | 25 | 41.8 | 38.8 | 44.3 |
| 25 | 9.5 | 53.3 | 51.3 | 43.8 | 24.3 | 39.8 | 36.8 | 41.8 |
| 31.25 | 10.7 | 51.9 | 49.9 | 41.2 | 23.6 | 37.9 | 34.9 | 39.2 |
| 62.5 | 15.4 | 47.4 | 45.4 | 32 | 21.5 | 31.9 | 28.9 | 30 |
| 100 | 19.8 | 44.3 | 42.3 | 24.5 | 20.1 | 27.8 | 24.8 | 22.5 |
| 200 | 29 | 39.8 | 37.8 | 10.8 | 18 | 21.8 | 18.8 | 8.8 |
| 250 | 32.8 | 38.3 | 36.3 | 5.5 | 17.3 | 19.8 | 16.8 | 3.5 |
| 300 | 36.4 | 37.1 | 35.1 | 0.7 | 16.8 | 18.3 | 15.3 | --- |
| 400 | 43 | 35.3 | 33.3 | --- | 15.9 | 15.8 | 12.8 | --- |
| 500 | 48.9 | 33.8 | 31.8 | --- | 15.2 | 13.8 | 10.8 | --- |