

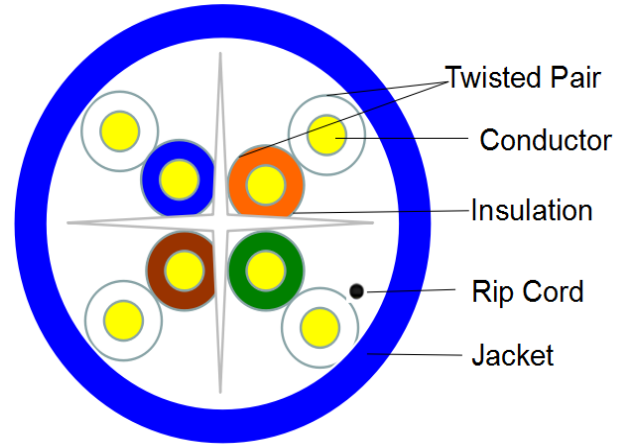
SCP PART#: CAT6

Description:

CAT6 ENHANCED 550 MHz 23 AWG SOLID BC,
4PR, UTP, ANSI/TIA 568-C.2, IEC 11801 CLASS E,
UL CMR, EN50575:2014 Eca, PVC JKT
1000FT/305M BOX

Regulatory:

UL: UL 444, TIA/EIA 568-C.2 and ISO/IEC 11801 Ed2
Type (UL) CMR or c(UL) FT4
EU RoHS 2011/65 EU Compliant
EN50575:2014 Reaction to fire Class Eca



Application:

Networking Lan Cable

Construction Characteristics:

| | | |
|-------------|---------------|---|
| Conductor | Material | Solid Bare Copper |
| | Size | 23AWG X 4P |
| | Construction | 1/0.57+/-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 |
| Jacket | Material | PVC |
| | Min.Thickness | 0.54mm |
| | AVG.Thickness | 0.60mm |
| | Diameter | 6.20+/-0.10mm |
| | Rip Cord | Nylon |
| | Color | Per request |
| Bend Radius | | Min 20D/125mm |

Electrical & Physical Characteristics:

| | | | |
|--------------------------------------|--------|------------------------|---------------------|
| Operating Temperature Range | | - 20°C +75°C | |
| Conductor Resistance | | Max 72.2ohm/km at 20°C | |
| Dielectric Strength | | Min AC1.5KV | |
| Spark Test | | 5.0KV | |
| Insulation | Unaged | Tensile Strenght | 16.5Mpa |
| | | Elongation | 500% |
| Insulation | Aged | Tensile Strenght | 14.2Mpa(100°C 168h) |
| | | Elongation | 250%(100°C 168h) |
| Jacket | Unaged | Tensile Strenght | 13.8Mpa |
| | | Elongation | 100% |
| Jacket | Aged | Tensile Strenght | 11.7Mpa(100°C 168h) |
| | | Elongation | 50%(100°C 168h) |
| Rated Voltage | | Max 300Volts | |
| DC Resisitance Unbalance | | Max 5% | |
| Pair-to-Ground Capacitance Unbalance | | Max 3300pF/km | |
| Characteristic Impedance | | 100+/-15OHM | |
| Nominal Velocity of Propagation(%) | | 67~69 | |
| Propagation Delay | | Max 536ns/100m | |
| Delay Skew | | Max 45ns/100m | |

Marking:

STRUCTURED CABLE PRODUCTS --- CAT6 --- CAT6 ENHANCED 550MHz UTP ANSI/TIA-568-C.2 ISO/IEC 11801 CLASS E
E198134 SCP3 (UL) C(UL) CMR 4PR 23AWG SOL BC - EN50575:2014 CE Eca PVC JKT FT4 75C EU RoHS EC
ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***M

Packaging:

| | | | |
|-------------------|----------------------|------------|---------------------|
| Approx.Weight | Approx.Dimension(mm) | Package | Packages per pallet |
| 14.2kgs/31.305lbs | 400X290X400 | 1000FT/Box | 36 |

Performance-1

| ITEM Frequency | Attenuation Max (dB/100m) | | NEXT Min (dB) | | PS NEXT Min (dB) | | ACR Min (dB) | |
|-------------------|------------------------------|------|---------------|------|------------------|------|--------------|------|
| | Standard | SCP | Standard | SCP | Standard | SCP | Standard | SCP |
| 1 | 2 | 1.9 | 74.3 | 80.3 | 72.3 | 76.6 | 72.3 | 78.4 |
| 4 | 3.8 | 3.7 | 65.3 | 75.6 | 63.3 | 74.2 | 61.5 | 71.9 |
| 8 | 5.3 | 5.1 | 60.8 | 66 | 58.8 | 65.1 | 55.5 | 60.9 |
| 10 | 6 | 5.8 | 59.3 | 67.6 | 57.3 | 65.9 | 53.3 | 61.8 |
| 16 | 7.6 | 7.4 | 56.2 | 70.8 | 54.2 | 67.2 | 48.6 | 63.4 |
| 20 | 8.5 | 8.2 | 54.8 | 71.9 | 52.8 | 69.1 | 46.3 | 63.7 |
| 25 | 9.5 | 9.1 | 53.3 | 62.3 | 51.3 | 60.8 | 43.8 | 53.2 |
| 31.25 | 10.7 | 9.9 | 51.9 | 68.7 | 49.9 | 67.1 | 41.2 | 58.8 |
| 62.5 | 15.4 | 15 | 47.4 | 59.6 | 45.4 | 58.3 | 32 | 44.6 |
| 100 | 19.8 | 18.8 | 44.3 | 60 | 42.3 | 58 | 24.5 | 41.2 |
| 200 | 29 | 27.4 | 39.8 | 57.5 | 37.8 | 56 | 10.8 | 30.1 |
| 250 | 32.8 | 29.4 | 38.3 | 55.8 | 36.3 | 54.1 | 5.5 | 26.4 |
| 300 | 36.4 | 33.3 | 37.1 | 54.2 | 35.1 | 53.4 | 0.7 | 20.9 |
| 400 | 43 | 38.6 | 35.3 | 53.8 | 33.3 | 52.1 | --- | --- |
| 500 | 48.9 | 43.9 | 33.8 | 51 | 31.8 | 49.3 | --- | --- |

Performance-2

| ITEM Frequency | RL Min (dB) | | ELFEXT Min (dB) | | PS ELFEXT Min (dB) | | PSACR Min (dB) | |
|-------------------|-------------|------|-----------------|------|--------------------|------|----------------|------|
| | Standard | SCP | Standard | SCP | Standard | SCP | Standard | SCP |
| 1 | 20 | 23.6 | 67.8 | 75.6 | 64.8 | 73.3 | 70.3 | 74.7 |
| 4 | 23 | 23.9 | 55.8 | 61.3 | 52.8 | 60.1 | 59.5 | 70.5 |
| 8 | 24.5 | 30 | 49.7 | 55.7 | 46.7 | 54.8 | 53.5 | 60 |
| 10 | 25 | 28.5 | 47.8 | 55.2 | 44.8 | 53.2 | 51.3 | 60.1 |
| 16 | 25 | 28.2 | 43.7 | 49.7 | 40.7 | 48.1 | 46.6 | 59.8 |
| 20 | 25 | 27.8 | 41.8 | 48.1 | 38.8 | 46.2 | 44.3 | 60.9 |
| 25 | 24.3 | 27.5 | 39.8 | 45.9 | 36.8 | 45 | 41.8 | 51.7 |
| 31.25 | 23.6 | 24.9 | 37.9 | 42.7 | 34.9 | 41.7 | 39.2 | 57.2 |
| 62.5 | 21.5 | 24.1 | 31.9 | 39.4 | 28.9 | 37.4 | 30 | 43.3 |
| 100 | 20.1 | 23.5 | 27.8 | 35 | 24.8 | 33.2 | 22.5 | 39.2 |
| 200 | 18 | 23.2 | 21.8 | 32.8 | 18.8 | 30.2 | 8.8 | 28.6 |
| 250 | 17.3 | 21.5 | 19.8 | 30.7 | 16.8 | 27.7 | 3.5 | 24.7 |
| 300 | 16.8 | 20.8 | 18.3 | 26.5 | 15.3 | 25.4 | --- | --- |
| 400 | 15.9 | 18.9 | 15.8 | 23.4 | 12.8 | 22.1 | --- | --- |
| 500 | 15.2 | 18.6 | 13.8 | 19.5 | 10.8 | 18.7 | --- | --- |