

SCP PART#: HNCPROPLUS-7A-LSZH

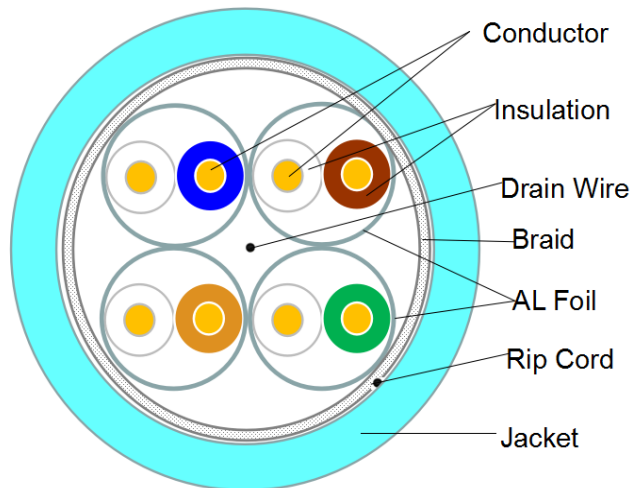
Description:

HNCPROPLUS+ FOR CAT7A - HDBASET ENHANCED
 CATEGORY 7A S/FTP- LOW SMOKE ZERO HALOGEN-
 10GBASE-T 1200 MHz 23 AWG SOLID BC, 4PR, S/FTP,
 ANSI/TIA 568-C.2, IEC 11801 CLASS Fa, EN50575:2014
 Dca-s1,d1,a1 LSZH JKT- ICE BLUE- 1000 FT/305 M SPOOL

Regulatory

TIA/EIA 568-C.2 and ISO/IEC 11801 Ed2 EU
 RoHS 2011/65 EU Compliant
 IEC 60332-1-2
 EN50575:2014 Reaction to fire Class Dca-s1,d1,a1

Application: Lan Cable



Construction Characteristics:

| | | |
|-------------|---------------|--|
| Conductor | Material | Solid Bare Copper |
| | Size | 23AWG X 4P |
| | Construction | 1/0.57+/-0.005mm |
| Insulation | Material | Skin-Foam-Skin PE |
| | Min.Thickness | 0.350mm |
| | AVG.Thickness | 0.360mm |
| | Diameter | 1.35+/-0.05mm |
| | Colors | Light BL/BL Light OR/OR Light GN/GN Light BN/BN |
| Shield | Material | Aluminum Foil every pair |
| Drain wire | Material | Tinned copper |
| | Size | 1/0.40TC |
| Braid | Material | Tinned copper |
| | Size | 16x7/0.12 TC |
| Jacket | Material | LSZH |
| | Min.Thickness | 0.54mm |
| | AVG.Thickness | 0.60mm |
| | Diameter | 7.50+/-0.20mm |
| | Rip Cord | Nylon |
| | Color | ICE Blue |
| Bend Radius | | Min 20D/150mm |

Electrical & Physical Characteristics:

| | | | |
|--------------------------------------|--------|------------------------|---------------------|
| Operating Temperature Range | | - 20°C + 75°C | |
| Rated Voltage | | Max 300 Volts | |
| 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% |
| | Aged | Tensile Strenght | 14.2Mpa(100°C 168h) |
| | | Elongation | 250%(100°C 168h) |
| Jacket | Unaged | Tensile Strenght | 11.3 Mpa |
| | | Elongation | 100% |
| | Aged | Tensile Strenght | 8.5Mpa(100°C 168h) |
| | | Elongation | 50%(100°C 168h) |
| 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 40ns/100m | |

Marking:

STRUCTURED CABLE PRODUCTS --- HNCPROPLUS FOR CAT7A --- HDBASET ENHANCED 10GBASE-T 1200MHZ S/FTP
 ISO/IEC 11801 CLASS FA 4PR 23AWG SOL BC - LSZH JKT EN50575:2014 Dca-s1,d1,a1 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 |
| 21.1kgs/46.517lbs | 360X270X160 | 1000FT/305M Spool | 27 |

Performance-1

| ITEM Frequency | Attenuation Max (dB/100m) | | NEXT Min (dB) | | PS NEXT Min (dB) | | SKW(ns/100m) | |
|-------------------|------------------------------|---------|---------------|---------|------------------|---------|--------------|---------|
| | Standard | Typical | Standard | Typical | Standard | Typical | Standard | Typical |
| 4 | 3.75 | 3.4 | 96.37 | 95.31 | 75 | 96.83 | 25 | 16.84 |
| 8 | 5.22 | 4.73 | 91.85 | 97.6 | 75 | 99.35 | 25 | 16.66 |
| 10 | 5.82 | 5.29 | 90.4 | 103.22 | 75 | 102.32 | 25 | 16.62 |
| 16 | 7.34 | 6.8 | 87.34 | 92.77 | 75 | 100.57 | 25 | 16.54 |
| 20 | 8.21 | 7.72 | 85.88 | 92.99 | 75 | 103.41 | 25 | 16.51 |
| 25 | 9.18 | 8.66 | 84.43 | 103.26 | 75 | 97.3 | 25 | 16.48 |
| 31.25 | 10.26 | 9.66 | 82.98 | 98.09 | 75 | 100.31 | 25 | 16.45 |
| 50 | 13.01 | 12.22 | 79.92 | 98.69 | 75 | 100.55 | 25 | 16.41 |
| 62.5 | 14.57 | 13.75 | 78.46 | 90.66 | 75 | 100.89 | 25 | 16.39 |
| 100 | 18.52 | 17.35 | 75.4 | 92.02 | 72.4 | 101.12 | 25 | 16.36 |
| 125 | 20.77 | 19.49 | 73.95 | 89.96 | 70.95 | 96 | 25 | 16.34 |
| 200 | 26.47 | 24.74 | 72.55 | 84.37 | 67.88 | 98.37 | 25 | 16.32 |
| 250 | 29.73 | 27.73 | 70.88 | 88.43 | 66.43 | 91.56 | 25 | 16.31 |
| 300 | 32.69 | 30.51 | 69.43 | 82.64 | 65.24 | 90.75 | 25 | 16.31 |
| 350 | 35.44 | 33.03 | 68.24 | 76.06 | 64.24 | 94.8 | 25 | 16.3 |
| 400 | 38.01 | 35.44 | 67.24 | 72.47 | 63.37 | 90.61 | 25 | 16.3 |
| 450 | 40.45 | 37.65 | 66.37 | 76.58 | 62.6 | 91.33 | 25 | 16.29 |
| 500 | 42.76 | 39.61 | 65.6 | 81.43 | 61.92 | 89.94 | 25 | 16.29 |
| 550 | 44.97 | 41.58 | 64.92 | 77.65 | 61.29 | 85.26 | 25 | 16.29 |
| 600 | 47.1 | 43.59 | 63.73 | 72.8 | 60.73 | 98.56 | 25 | 16.29 |
| 650 | 49.15 | 44.27 | 63.2 | 92 | 60.21 | 89.49 | 25 | 15.75 |
| 700 | 51.13 | 45.85 | 62.7 | 83.7 | 59.72 | 83.47 | 25 | 15.75 |
| 750 | 53.05 | 47.76 | 62.3 | 89.9 | 59.27 | 88.2 | 25 | 15.75 |
| 800 | 54.92 | 49.55 | 61.9 | 83.5 | 58.85 | 82.73 | 25 | 15.74 |
| 900 | 58.51 | 52.45 | 61.1 | 80.7 | 58.09 | 79.5 | 25 | 15.74 |
| 1000 | 61.93 | 55.49 | 60.4 | 86.1 | 57.4 | 83.76 | 25 | 15.74 |

Performance-2

| ITEM Frequency | RL Min (dB) | | ELFEXT Min (dB) | | PS ELFEXT Min (dB) | | Vop% | |
|-------------------|-------------|---------|-----------------|---------|--------------------|---------|----------|---------|
| | Standard | Typical | Standard | Typical | Standard | Typical | Standard | Typical |
| 4 | 23.01 | 28.29 | 78 | 93.64 | 75 | 93.6 | 70 | 72.4 |
| 8 | 24.52 | 39.02 | 77.24 | 107.38 | 74.2 | 92.4 | 70 | 73.24 |
| 10 | 25 | 37.65 | 75.3 | 102.12 | 72.3 | 91 | 70 | 73.46 |
| 16 | 25 | 36.77 | 71.22 | 96.07 | 68.2 | 93.4 | 70 | 73.85 |
| 20 | 25 | 38.08 | 69.28 | 96.57 | 66.3 | 87.6 | 70 | 74 |
| 25 | 24.32 | 38.1 | 67.34 | 92.83 | 64.3 | 88.4 | 70 | 74.14 |
| 31.25 | 23.64 | 37.94 | 65.4 | 95.67 | 62.4 | 88.9 | 70 | 74.27 |
| 50 | 22.21 | 39.05 | 61.32 | 98.97 | 58.3 | 76.2 | 70 | 74.5 |
| 62.5 | 21.54 | 41.56 | 59.38 | 94.86 | 56.4 | 74.2 | 70 | 74.59 |
| 100 | 20.11 | 38.51 | 55.3 | 87.34 | 52.3 | 67.3 | 70 | 74.75 |
| 125 | 19.43 | 38.5 | 53.36 | 89.19 | 50.4 | 66.8 | 70 | 74.81 |
| 200 | 18 | 28.94 | 49.28 | 74.38 | 46.3 | 65.7 | 70 | 74.92 |
| 250 | 17.32 | 30.12 | 47.34 | 74.22 | 44.3 | 59.8 | 70 | 74.97 |
| 300 | 17.3 | 33.96 | 45.76 | 73.38 | 42.8 | 59.2 | 70 | 75 |
| 350 | 17.3 | 34.55 | 44.42 | 78.21 | 41.4 | 60.5 | 70 | 75.03 |
| 400 | 17.3 | 27.96 | 43.26 | 82.03 | 40.3 | 57.5 | 70 | 75.05 |
| 450 | 17.3 | 28.69 | 42.24 | 73.78 | 39.2 | 51.6 | 70 | 75.07 |
| 500 | 17.3 | 26.38 | 41.32 | 64.45 | 38.3 | 47.6 | 70 | 75.08 |
| 550 | 17.3 | 26.19 | 40.49 | 72.9 | 37.5 | 46.5 | 70 | 75.09 |
| 600 | 17.3 | 23.54 | 39.74 | 57.47 | 36.7 | 47.3 | 70 | 75.11 |
| 650 | 17 | 26.8 | 39 | 54.5 | 36 | 43.2 | 70 | 74.59 |
| 700 | 16.6 | 26.3 | 38.4 | 54.2 | 35.4 | 43.6 | 70 | 74.75 |
| 750 | 16.3 | 25.8 | 37.8 | 53.4 | 34.8 | 44.5 | 70 | 74.81 |
| 800 | 16.1 | 26.9 | 37.2 | 51.4 | 34.2 | 40.2 | 70 | 74.92 |
| 900 | 15.5 | 25 | 36.2 | 50.2 | 33.2 | 38.2 | 70 | 74.97 |
| 1000 | 15.1 | 24.8 | 35.3 | 45.2 | 32.3 | 37.6 | 70 | 75.11 |