

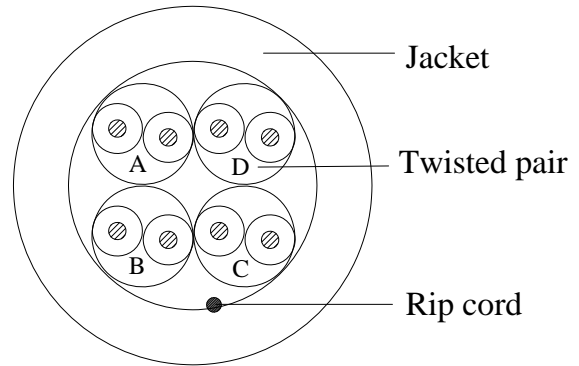


PRODUCT SPECIFICATIONS

SCP PART#: <b>HNCPRO-BL</b>		DESCRIPTION: HNCPRO™ for CAT5E- ENHANCED 350MHz 24 AWG SOLID 4PR UTP, PVC JKT- 305M/1000 FT BLACK BOX PVC JKT COLORS: BLUE, GREEN, ORANGE, RED, WHITE, YELLOW			
Edition	B	Established Date	2012/12/07	Revised Date	2013/03/20
Approval	Richard	Checked	ANDREW	Finish	SIMON

**Standards:**

TIA/EIA 568-C.2	IEC 61156-5
ISO/IEC 11801	EN 50288-3-1
EN 50173-1:2011	EMC Performance Rating 6
<b>FLAME SAFETY:</b>	<b>OTHER:</b>
ISO 1872-PE	CE, RoHS
ANSI C 8.35	UL c(UL)
IEC 708-1	UL 444
	CMR FT4



**Application:** HDBaseT® RECOMMENDED/APPROVED - LAN/NETWORK Cable

- 10BASE-T through 1000BASE-T Ethernet
- PoE+ – IEEE 802.3at Type 1 and 2
- Power over Ethernet (PoE) – IEEE 802.3af
- ATM and token ring

**Construction Characteristics:**

<b>Conductor</b>	Material	Solid Bare Copper
	Size	24AWG X 4P
	Construction	1/0.50±0.004mm
<b>Insulation</b>	Material	HDPE
	Min. Thickness	0.188mm
	AVG. Thickness	0.205mm
	Diameter	0.91±0.01mm
	Colors	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
<b>Jacket</b>	Material	PVC
	AVG. Thickness	0.60mm
	Min. Thickness	0.54mm
	Diameter	5.10±0.10mm
	Rip Cord	Nylon
	Colors	Per request

## Electrical & Physical Characters

rating		75°C 30V	
Conductor Resistance		Max 93.8ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Spark Test		5.0KV	
AC Leakage Current Through overall Jacket		AC 1500V ≤10mA	
Insulation	Unaged	Tensile Strength	16.5 Mpa
		Elongation	500%
	Aged	Tensile Strength	14.2 Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strength	13.8 Mpa
		Elongation	150%
	Aged	Tensile Strength	11.7 Mpa(100°C 168h)
		Elongation	80%(100°C 168h)
Cold Bend Test		-20°C 4hours No Cracking	
DC Resistance Unbalance		Max 5%	
Pair-to-Ground Capacitance Unbalance		Max 3300pF/km	
Characteristic Impedance		1~350MHZ 100 ± 15OHM	
Nominal Velocity of Propagation (%)		67~69	
Propagation Delay		350MHZ Max 536ns/100m	
Delay Skew		1~350MHZ Max 45ns/100m	
<b>Marking:</b>			
<b>Packaging:</b>			
Approx. Weight(kg)	Approx. Dimension(mm)	Package	Packages per Pallet
10.45	335X260X350	1000 ft/Box	36

# HNCPRO-XX

## 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	2.0	2.0	65.3	80	62.3	79.0	63.3	78.0
4	4.1	3.7	56.3	67.1	53.3	65.7	52.2	63.4
8	5.8	5.2	51.8	65.5	48.8	62.5	46.0	60.3
10	6.5	5.9	50.3	62.1	47.3	59.7	43.8	56.2
16	8.2	7.4	47.2	57.9	44.2	56.3	39.0	50.5
20	9.3	8.2	45.8	57.6	42.8	54.7	36.5	49.4
25	10.4	9.2	44.3	54.3	41.3	51.7	33.9	45.1
31.25	11.7	10.3	42.9	54.7	39.9	52	31.2	44.4
62.5	17.0	14.6	38.4	49.4	35.4	46.7	21.4	34.8
100	22.0	18.6	35.3	42.5	32.3	41.7	13.3	23.9
155	28.1	22.9	32.4	48.8	29.4	45.7	4.3	25.9
200	32.4	25.7	30.8	42.3	27.8	38.9	---	---
300	41.0	31.6	28.1	39.7	25.1	35.8	---	---
350	44.9	34.3	27.1	44	24.1	34.2	---	---

## 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	20.0	24.1	63.8	76.2	60.8	73.2	60.3	77.0
4	23.0	25.2	51.8	61.2	48.8	59.5	49.2	62.0
8	24.5	25.7	45.7	52.2	42.7	51.5	43.0	57.3
10	25.0	27.1	43.8	50.8	40.8	50.5	40.8	53.8
16	25.0	26.2	39.7	47.7	36.7	45.5	36.0	48.9
20	25.0	26.1	37.8	47.9	34.8	46.4	33.5	46.5
25	24.3	26.4	35.8	48.7	32.8	45.9	30.9	42.5
31.25	23.6	24.6	33.9	43.9	30.9	41.1	28.2	41.7
62.5	21.5	24.0	27.8	34.4	24.8	34.0	18.4	32.1
100	20.1	22.8	23.8	29.0	20.8	27.9	10.3	23.1
155	18.8	26.5	20.0	33.6	17.0	26.3	1.3	22.8
200	18.0	28.1	17.7	27.8	14.7	23.2	---	---
300	16.8	26.3	14.2	35.7	11.2	23.9	---	---
350	16.3	28.5	12.9	31.6	9.9	21.3	---	---