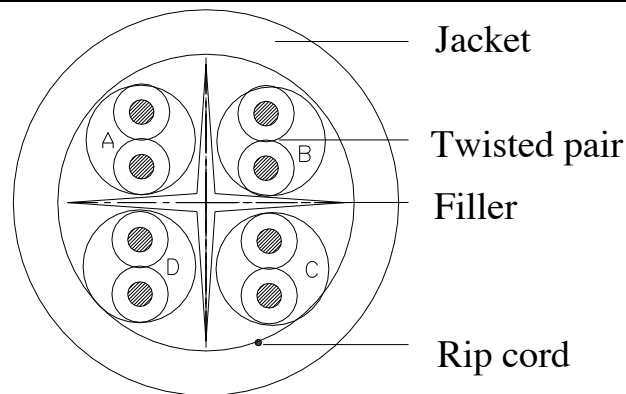


PRODUCT SPECIFICATIONS

SCP PART#: HNCPROPLUS-GN		DESCRIPTION: HNCPROPLUS+™ FOR CAT6 - HDBaseT® ENHANCED 550 MHz 4PR 23 AWG SOLID UTP, VERIFIED TO ISO/IEC 11801 Ed2; TIA/EIA 568-C.2 - INDOOR/OUTDOOR SUNLIGHT RESISTANT- PVC JKT			
Edition:	C	Date:	2013/07/04	Rev Date:	2014/01/14
Approval:	Richard	Checked:	John	Finish:	Leo



Regulatory: 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

Application: 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	1.01±0.01mm
	Colors	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Filler	Filler	LDPE
Jacket	Material	PVC (UV)
	AVG. Thickness	0.60mm
	Min. Thickness	0.54mm
	Diameter	6.20±0.10mm
	Color	Per request
	Rip Cord	Nylon

Electrical & Physical Characteristics:

Rating		75°C 30V	
Conductor Resistance		Max 72.2ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Spark Test		5.0KV	
AC Leakage Current Through overall Jacket		AC 1500V \leq 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		1~500MHZ 100 \pm 15OHM	
Nominal Velocity of Propagation (%)		67~69	
Propagation Delay		500MHZ Max 536ns/100m	
Delay Skew		1~500MHZ Max 40ns/100m	
Marking: STRUCTURED CABLE PRODUCTS--- HNCROPLUS+™ FOR CAT6 --- HDBASET ENHANCED 550 MHz 4PR 23 AWG SOLID UTP (UL) OR C(UL) E198134 CL3R OR CMR FT4 VERIFIED TO ISO/IEC 11801 ED2 ANSI/TIA-568-C.2 --- INDOOR/OUTDOOR SUN RES --- 75C CE RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 xxxxM			
Packaging:			
Approx. Weight(kg)	Approx. Dimension(mm)	package	Packages per Pallet
15.80	390X280X420	1000 ft/Box	36/24

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	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	66.0	58.8	65.1	55.5	60.9
10	6.0	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	15.0	47.4	59.6	45.4	58.3	32.0	44.6
100	19.8	18.8	44.3	60.0	42.3	58.0	24.5	41.2
200	29.0	27.4	39.8	57.5	37.8	56.0	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	43.0	38.6	35.3	53.8	33.3	52.1	---	---
500	48.9	43.9	33.8	51.0	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	20.0	23.6	67.8	75.6	64.8	73.3	70.3	74.7
4	23.0	23.9	55.8	61.3	52.8	60.1	59.5	70.5
8	24.5	30.0	49.7	55.7	46.7	54.8	53.5	60.0
10	25.0	28.5	47.8	55.2	44.8	53.2	51.3	60.1
16	25.0	28.2	43.7	49.7	40.7	48.1	46.6	59.8
20	25.0	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	45.0	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	30.0	43.3
100	20.1	23.5	27.8	35.0	24.8	33.2	22.5	39.2
200	18.0	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	---	---