

**SCP PART#: HNC-18**

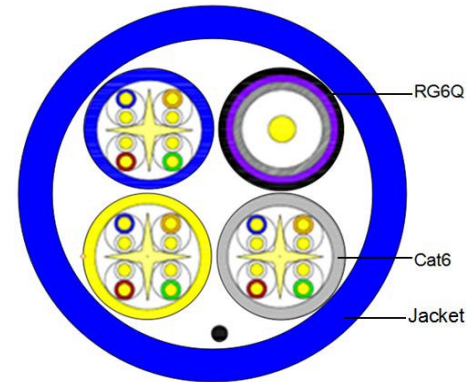
**Description**

3x CAT6 (HNCPROPLUS) 23 AWG SOLID BC, UTP  
+ 1x RG6/U QUAD SHIELD COAX BC - (BUNDLED)-  
EN50575:2014 Eca, UL CM, PVC JKT- BLUE-  
500 FT/152M SPOOL

**Regulatory**

UL 444, TIA/EIA 568-C.2 and ISO/IEC 11801 Ed2  
Type (UL) CM, CMG, or c(UL) FT4  
EU RoHS 2011/65 EU Compliant

**Application: BUNDLE CABLE**



**Construction Characteristics:**

Conductor(CAT6)	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+/-0.10mm
	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+/-0.20mm
	Rip Cord	Nylon
	Colors	Blue,Gray,Yellow
Conductor(RG6)	Material	Solid Bare Copper
	Size	18AWG X 1C
	Construction	1/1.02+/-0.004mm
Insulation	Material	FPE
	Min.Thickness	1.60mm
	AVG.Thickness	1.79mm
	Diameter	4.57+/-0.10mm
	Colors	Natural
Shield	Bonded AL-FOIL	Yes
	Braiding-1(0.12±0.005AL wire)	Coverage>60%
	Double AL-Foil	Yes
	Braiding-2(0.12±0.005AL wire)	Coverage>40%
Jacket	Material	PVC
	Min.Thickness	0.75mm
	AVG.Thickness	0.84mm
	Diameter	7.25+/-0.20mm
	Color	Black
Assembly(3XCAT6+1XRG6/U)		
Jacket	Material	PVC
	AVG.Thickness	0.80mm
	Min.Thickness	0.70mm
	Diameter	17.0+/-0.20mm
	Colors	Blue
	Rip Cord	Nylon
Bend Radius	Min 20D/340mm	

**Electrical & Physical Characteristics(CAT6)**

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	
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	13.8Mpa
		Elongation	100%
	Aged	Tensile Strenght	11.7Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
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	

**Electrical & Physical Characteristics(RG6)**

Operating Temperature Range		- 20°C + 70°C	
Conductor Resistance		Max 98 ohm/km at 20°C	
Dielectric Strength		Min AC2.0 KV	
Jacket	Unaged	Tensile Strenght	13.8Mpa
		Elongation	100%
	Aged	Tensile Strenght	11.7Mpa(100°C 168h)
		Elongation	50%(100°C 168h)

**Marking:**

STRUCTURED CABLE PRODUCTS --- HNC-18 --- (UL) C(UL) E198134 CM SCP3  
3XHNCPROPLUS + FOR CAT6 23AWG UTP + 1XRG6/U QUAD SHIELD COAX CCS (BUNDLED)  
CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXX M

**Packaging:**

Approx.Wight(kg)	Approx.Dimension(mm)	Package	Packages per pallet
42.8	55X38X25	500ft/Spool	8

### 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	---	---

### Performance

ITEM	Attention MAX
Frequency	DB/100M
5	2.66
50	5.25
200	10.5
400	14.11
700	18.5
1000	22.97
1200	25.5
1800	32
2200	36
2500	39
3000	44.5