



# Structured Cable Products™

Quality Installations Deserve Quality Products

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## SCP PART#: HNC-1

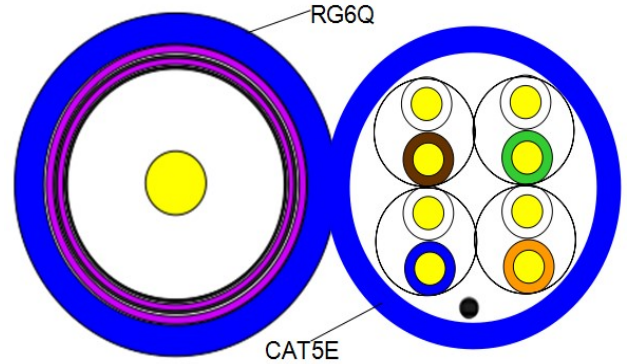
**Description:**

1x CAT5E 350 MHz 24 AWG Solid BC 4PR UTP  
 + 1x RG6/U Quad Shield Coax 3.0 GHz 18 AWG BC  
 Siamese - Bonded side-by-side, PVC Jacket

**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(CAT5E)	Material	Solid Bare Copper
	Size	24AWG X 4P
	Construction	1/0.50+/-0.004mm
Insulation	Material	HDPE
	Min.Thickness	0.188mm
	AVG.Thickness	0.205mm
	Diameter	0.9+/-0.1mm
	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	5.20+/-0.20mm
	Rip Cord	Nylon
	Colors	Blue
Conductor (RG6/U Quad)	Material	Bare Copper (BC)
	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
	Colors	Blue

**Electrical & Physical Characteristic:(CAT5E)**

Operating Temperature Range		- 20°C + 70°C	
Conductor Resistance		Max 93.8 ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Insulation	Unaged	Tensile Strength	16.5Mpa
		Elongation	500%
	Aged	Tensile Strength	14.2Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strength	13.8Mpa
		Elongation	100%
	Aged	Tensile Strength	11.7Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
DC Resisitance 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 Characteristic:(RG6/U Quad)**

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

**Marking:**

**STRUCTURED CABLE PRODUCTS --- HNC-1 --- 1X CAT5E 24 AWG UTP  
 + 1X RG6/U QUAD SHIELD COAX BC - (SIAMESE) E198134 SCP3 (UL) C(UL)  
 CM CE RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXX FEET**

**Packaging:**

Approx.Wight(kg)	Approx.Dimension(mm)	Package	Packages per pallet
13.5	36X22X16	500ft/Spool	36

**Performance-1 (CAT5E)**

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	2	65.3	80	62.3	79	63.3	78
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	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	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	14.6	38.4	49.4	35.4	46.7	21.4	34.8
100	22	18.6	35.3	42.5	32.3	41.7	23.3	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	31.6	28.1	39.7	25.1	35.8	---	---
350	44.9	34.3	27.1	44	24.1	34.2	---	---

**Performance-2 (CAT5E)**

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	24.1	63.8	76.2	60.8	73.2	60.3	77
4	23	25.2	51.8	61.2	48.8	59.5	49.2	62
8	24.5	25.7	45.7	52.2	42.7	51.5	43	57.3
10	25	27.1	43.8	50.8	40.8	50.5	40.8	53.8
16	25	26.2	39.7	47.7	36.7	45.5	36	48.9
20	25	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	27.8	34.4	24.8	34	18.4	32.1
100	20.1	22.8	23.8	29	20.8	27.9	10.3	23.1
155	18.8	26.5	20	33.6	17	26.3	1.3	22.8
200	18	28.1	1.7	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	---	---

**Performance (RG6/U Quad)**

ITEM Frequency	Attention MAX 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