

SCP PART#: HNC-16

3x CAT5E ENHANCED 350 MHz 24 AWG SOLID BC, UTP + 1x RG6/U QUAD SHIELD COAX 18 AWG, BUNDLED - PVC JKT - BLUE - 500FT SPOOL

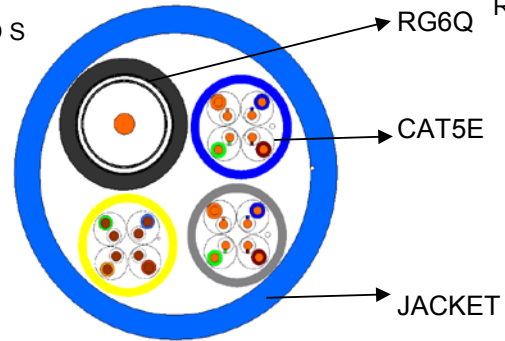
Regulatory

UL 444, ANSI/TIA 568.2-D and ISO/IEC 11801 Class D

Type (UL) CM, CMG, or c(UL) FT4

EU RoHS 2011/65 EU Compliant

Application: BUNDLE CABLE



Rev02/22

Construction Characteristics (CAT5E)

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+/-0.01mm	
	Colors		Blue- White/Blue
			Orange-White/Orange
		Green-White/Green	
Jacket	Material	PVC	
	Min.Thickness	0.60mm	
	AVG.Thickness	0.54mm	
	Diameter	5.10+/-0.10mm	
	Rip Cord	Nylon	
Color	Blue,Gary,Yellow		

Electrical & Physical Characteristics (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	

Construction Characteristics (RG6)

Conductor(RG6)	Material	Copper clad steel (CCS)
	Size	18AWG X 1C
	Construction	1/1.02+/-0.004mm
Insulation	Material	FPE
	Min.Thickness	1.60mm
	AVG.Thickness	
	Diameter	
	Colors	
Shield	Bonded AL-FOIL	
	Braiding-1(0.12±0.005AL wire)	
	Double AL-Foil	
	Braiding-2(0.12±0.005AL wire)	
Jacket	Material	
	Min.Thickness	
	AVG.Thickness	0.75mm
	Diameter	7.25+/-0.20mm
	Color	Black

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

Marking:

STRUCTURED CABLE PRODUCTS --- HNC-16 --- E198134 (UL) C(UL) CM 3x CAT5E ENHANCED 350 MHz 24 AWG SOLID BC UTP VERIFIED TO TIA/EIA 568.2-D + 1x RG6/U QUAD SHIELD COAX 18 AWG SWEEP TESTED TO 3.0GHZ HDTV FT4 75C -- CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXX FEET

Construction Characteristics (Assembled 3x CAT5E + RG6)

Jacket	Material	PVC
	Min.Thickness	1.0mm
	AVG.Thickness	1.2mm
	Diameter	16.5+/-0.20mm
	Rip Cord	500D
	Color	Black
	Bend Radius	Min 20D/145mm

Packaging:

Approx.Weight	Approx.Dimension(mm)	Package
34kgs/75lbs	55X25X28	500ft/Spool
Packages per pallet		
12		

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)

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