

SCP PART#: HNC-3

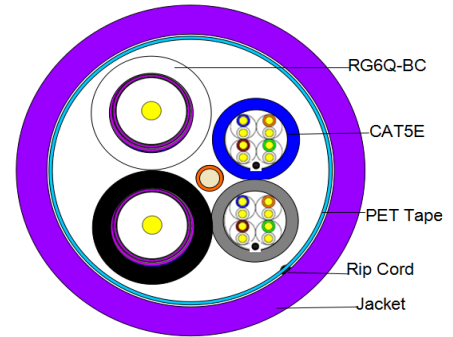
Description

2x CAT5E 24 AWG UTP + 2x RG6/U QUAD SHIELD COAX BC +
2x MULTIMODE 62.5/125u OM1 FIBER- (BUNDLED)
500 FT SPOOL - PURPLE

Rev02/22

Regulatory

UL 444, TIA/EIA 568.2-D and ISO/IEC 11801
Type (UL) CM, CMG
EU RoHS 2011/65 EU Compliant



Application: Multi-media Cables for Smart Home

Construction Characteristics:

Conductor (2xCAT5E)	Material	Solid Bare Copper	Conductor (2xRG6)	Material	Solid Bare Copper	
	Size	24AWG X 4P		Size	18AWG X 1C	
	Construction	1/0.50+/-0.004mm		Construction	1/1.02+/-0.004mm	
Insulation	Material	HDPE	Insulation	Material	FPE	
	Min.Thickness	0.188mm		Min.Thickness	1.60mm	
	AVG.Thickness	0.20mm		AVG.Thickness	1.79mm	
	Diameter	0.90+/-0.10mm		Diameter	4.57+/-0.10mm	
	Colors	Blue- White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown		Colors	Natural	
Jacket	Material	PVC	Shield	Bonded AL-FOIL	Yes	
	Min.Thickness	0.54mm		Braiding-1(0.12+0.005AL wire)	Coverage>60%	
	AVG.Thickness	0.60mm		Double AL-Foil	Yes	
	Diameter	5.20+/-0.20mm		Braiding-2(0.12+0.005AL wire)	Coverage>40%	
	Rip Cord	500D		Material	PVC	
Conductor (Fiber)	Color	Gray,Blue	Jacket	Min.Thickness	0.75mm	
	Core Dia.	62.5+/-3µm		AVG.Thickness	0.84mm	
	Clad Dia.	125+/-2µm		Diameter	7.25+/-0.20mm	
	Cladding Non-Circularity(%)	<2.0		Color	Black,White	
	Core/Clad Concentricity Error	<=3.0µm		Assembled(2xCAT5E+1xFIBER+2xRG6/UQ)		
Insulation	Primary Coating Material	UV Curable Acrylate	PET Tape	PET Tape	Yes	
	Primary Coating Dia.	245+/-5µm		Size	0.03X45mm	
	Secondary Buffer Material	PVC		Jacket	Material	PVC
	Secondary Buffer Dia.	0.90+/-0.05mm			Min.Thickness	1.00mm
	Colors	Blue,White			AVG.Thickness	1.20mm
Jacket	Material	PVC	Diameter		17.4+/-1.0mm	
	Min.Thickness	0.63mm	Rip Cord		500D	
	AVG.Thickness	0.70mm	Colors	Purple		
	Diameter	3.50+/-0.10mm	Bend radius	Min 20D/350mm		
	Colors	Orange				

Marking:

RG6 Printing:STRUCTURED CABLE PRODUCTS -- RG6/UQ-BC -- RG6/U QUAD SHIELD 3.0 GHZ 60% /40% AL BRAID 18AWG BC E198134 SCP3 (UL) C(UL) CM EN50575:2014 CE Eca PVC JKT EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***M

CAT5E Printing:STRUCTURED CABLE PRODUCTS -- CAT5E -- CAT5E ENHANCED 350MHz UTP ANSI/TIA-568.2-D ISO/IEC 11801 CLASS D E198134 SCP3 (UL) C(UL) CMR 4PR 24AWG SOL BC - CE PVC JKT FT4 75C EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***FEET

Outer sheath Printing:

STRUCTURED CABLE PRODUCTS -- HNC-3 -- E198134 SCP3 (UL) C(UL) CM 2XCAT5E 350MHZ 24AWG UTP + 2XRG6/U QUAD SHIELD COAX BC + 2X62.5/125 OM1 FIBER (BUNDLED) EN50575:2014 CE Eca PVC JKT RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXFEET

Packaging:

Approx.Weight	Approx.Dimension(mm)	Package	Packages per pallet
45kgs / 99.2lbs	550x350x250	500ft/Spool	8/12

Electrical & Physical Characteristics: (CAT5E)

Operating Temperature Range		- 20°C + 75°C	
Conductor Resistance		Max 93.8 ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Insulation	Unaged	Tensile Strength	12.3Mpa
		Elongation	150%
	Aged	Tensile Strength	9.8Mpa(100°C 168h)
		Elongation	100%(100°C 168h)
Jacket	Unaged	Tensile Strength	13.8Mpa
		Elongation	100%
	Aged	Tensile Strength	11.7Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
Rated Voltage		Max 300Volts	
DC Resistance Unbalance		Max 5%	
Pair-to-Ground Capacitance Unbalance		Max 330pF/100m	
Nominal Velocity of Propagation(%)		66	
Delay Skew		Max 45ns/100m	

Electrical & Physical Characteristics: (FIBER)

Max.Attenuation (dB/km)		<=3.5(At 850nm Wavelength)	
		<=1.5(At 1300nm Wavelength)	
Min.Modal Bandwidth (MHz.km)		>=200(At 850nm Wavelength)	
		>=500(At 1300nm Wavelength)	
Jacket	Unaged	Tensile Strength	13.8Mpa
		Elongation	150%
	Aged	Tensile Strength	11.7Mpa(100°C 168h)
		Elongation	80%(100°C 168h)
Cold Bend Test		-20°C 4hours No Cracking	

Electrical & Physical Characteristics: (RG6)

Operating Temperature Range		- 20°C + 75°C	
Minimum installation temperature		0°C + 40°C	
Conductor Resistance		Max 25 ohm/km at 20°C	
Dielectric Strength		Min AC2.0 KV	

Performance-1 (Cat5e)

ITEM Frequenc	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 Frequenc	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 Frequency	Attention MAX DB/100M
5	1.9
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