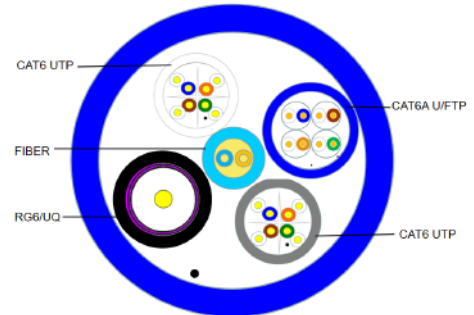


**SCP PART#: HNC-EF-2**

**Description**

Copper/Fiber Composite - (2) Cat6 UTP UL CMR (White/Gray) +  
 (1) Cat6a U/FTP UL CMR (Blue) + (1) RG6/UQ CCS + (1) 2-Strand Tight Buff Dist  
 OM3 SCP EasyFiber w/Corning Clearcurve, UL OFNR (Aqua), Blue Overall Jacket  
 500ft/152m Spool



**Regulatory**

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

**Application:** BUNDLE CABLE

**Construction Characteristics:**

<b>Conductor (2*CAT6)</b>	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
<b>Conductor (1*CAT6A U/FTP)</b>	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.57+/-0.005mm
Insulation	Material	Skin-foam-skin PE
	Min.Thickness	0.350mm
	AVG.Thickness	0.360mm
	Diameter	1.35+/-0.05mm
	Colors	Light blue/Blue Light orange/Orange Light green/Green Light brown/Brown
Pair screen	Every pair screen	Aluminum Foil
Drain wire	TC	1/0.40+/-0.005
Jacket	Material	PVC
	Min.Thickness	0.54mm
	AVG.Thickness	0.60mm
	Diameter	7.30+/-0.20mm
	Rip Cord	Nylon
Color		Blue

<b>Conductor (1*RG6/UQ CCS)</b>	Material	Copper clad steel (CCS)
	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
Jacket	Braiding-2(0.12+0.005AL wire)	Coverage>40%
	Material	PVC
	Min.Thickness	0.75mm
<b>Conductor (1*Fiber)</b>	AVG.Thickness	0.84mm
	Diameter	7.25+/-0.20mm
	Color	Black
	Count	2
	Type	Corning Clear Curve ® OM3
	OD(mm)	4.0±0.5
	Wall Thickness	0.7±0.1
Color	Aqua –Pantone 3242C	
Material	UL PVC - OFNR	

**Assembly**

**(2\*CAT6 UTP+1\*CAT6A U/FTP+1\*FIBER+1\*RG6/UQ CCS)**

Jacket	Material	PVC
	Min.Thickness	0.70mm
	AVG.Thickness	0.80mm
	Diameter	21.5+/-1.0mm
	Rip Cord	Nylon
Colors	Blue	
Bend radius	Min 20D/380mm	

**Marking:**

STRUCTURED CABLE PRODUCTS --- HNC-EF-2 --- E198134 SCP3 (UL) C(UL) CM -----2\*CAT6 UTP +1\*CAT6A U/FTP+1\*RG6/UQ CCS+  
 1\*2-STRAND OM3 SCP EASYFIBER (BUNDLED) PVC JKT RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 \*\*\*FEET DDDMMYY

**Packaging:**

Approx.Weight	Approx.Dimension(mm)	Package	Packages per pallet
47.5kg	550x450x250	500ft/Spool	8

**Electrical & Physical Characteristics: (CAT6)**

Operating Temperature Range	- 20°C +75°C
Dielectric Strength	Min AC1.5KV
Spark Test	5.0KV
Rated Voltage	Max 300Volts
DC Resisitance Unbalance	Max 5%
Pair-to-Ground Capacitance Unbalance	Max 330pF/100m
Nominal Velocity of Propagation(%)	66
Delay Skew	Max 45ns/100m

**Performance-1**

ITEM Frequec	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 Frequec	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	---	---

**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**

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