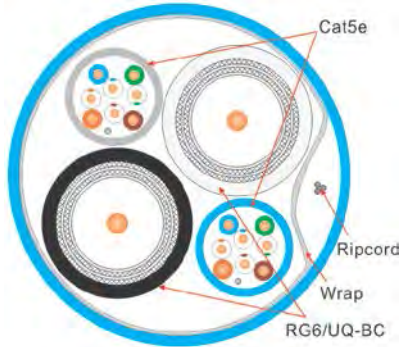




**SCP Part No. HNC-2-BC**

REV.A

**Cross Section**



**Description**

2x CAT5E 24 AWG UTP + 2x RG6/U QUAD SHIELD COAX BC- (BUNDLED)- 500 FT SPOOL- BLUE

**Marking**

STRUCTURED CABLE PRODUCTS EXXXXXX (UL) OR c(UL) CM 75C MM/YY --- P/N: HNC-2-BC --- 2x CAT5E ENHANCED 350 MHz 24 AWG 4PR UTP VERIFIED TO TIA/EIA 568B.2 + 2x RG6/U QUAD SHIELD 18 AWG BC SWEEP TESTED TO 3.0GHZ HDTV - PVC JKT CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXX FEET

**Construction**

**Component 1: RG6/UQ-BC**

<b>Center Conductor</b>	<b>Bare Copper</b>
Size	18AWG
Dia.(in/mm)	0.0403/1.02
<b>Insulate</b>	<b>Skin Foam PE</b>
Insulation Dia.(in/mm)	0.0180/4.57
<b>The First Shield</b>	<b>Bonded Aluminum Foil</b>
Coverage Area (%)	100
<b>The First Braid Shield</b>	<b>Aluminum Wire</b>
Coverage Area(%)	60
<b>The second Shield</b>	<b>Aluminum Foil</b>
Coverage Area(%)	100
<b>The Second Braid Shield</b>	<b>Aluminum Wire</b>
Coverage Area(%)	40
<b>Jacket</b>	<b>Blue FR-PVC</b>
Cable Dia.(in/mm)	0.297/7.54

**Component 2: CAT5E**

<b>Conductor</b>	<b>Bare Copper</b>
Size	24AWG
<b>Insulate</b>	<b>HDPE</b>
Insulation Dia.(in/mm)	0.037/0.93
Cabling	4Pairs
<b>Jacket</b>	<b>Blue FR-PVC</b>
Cable Dia.(in/mm)	0.209/5.30
<b>Final assembly</b>	0.209/5.30
Cabling	2 core RG6/UQ-BC & 2 core Cat5e
Warp	PET
Ripcord	Cotton

<b>Out Jacket</b>	<b>Blue FR-PVC</b>
Nom. Thickness(in/mm)	0.033/0.85
Cable Dia.(in/mm)	0.665/16.90

<b>Packing</b>	<b>Wooden spool</b>
Length(ft/m)	500/152.5
Gross Weight(lbs/kg)	78.26/35.5

**Performance**

**Electrical Characteristics:[@68°F.(20°C.)]**

**component 1: RG6/UQ-BC**

Frequency (MHz)	Attenuation (dB/100ft)	Attenuation (dB/100m)
5	0.79	2.57
10	0.82	2.66
50	1.47	4.79
100	2.05	6.72
200	2.84	9.28
400	4.06	13.28
700	5.60	18.36
900	6.24	20.43
1000	6.60	21.61
1200	7.50	24.59
1450	8.04	26.36
2500	11.13	36.47
2750	11.58	37.94
3000	12.06	39.54

Dielectric Strength (kV/min)	1
Impedence (ohms)	75±3.0
SRL (dB)	5~1000MHz >=20 1001~3000MHz >=15
Capacitance (pF/ft)	16.2
Conductor DCR@ 20°C (ohms/kft)	6.55
DC Loop Resistance@ 20°C (ohms/kft)	12.75
Velocity Of Propagation (%)	85

**Component 2: cat5e**

Frequency (MHz)	Attenuation (dB/100m)	Next min (dB)	RL min (dB)
1	2.0	75.3	20.0
4	3.8	66.3	23.0
8	5.4	61.8	24.5
10	6.0	60.3	25.0
16	7.6	57.3	25.0
20	8.5	55.8	25.0
25	9.6	54.3	24.3
31.25	10.7	52.9	23.6
62.5	15.5	48.4	21.5
100	19.9	45.3	20.1

Conductor DCR@ 20°C (ohms/kft)	31
Mutual capacitance (pF/ft)	17.7
DC Resstance Unbalance(%)	MAX 5

**Mechanical Characteristics:**

Test Object:	Jacket
Test Material	
Before Tensile strength (psi)	>=2000
Aging Elongation (%)	200
Aging Condition (°C_hrs)	100_168
After Tensile strength (%)	>=85%unaged
Aging Elongation (%)	>=50%unaged
Cold Bend (-20±2°C/4hrs)	No crack
Jacket Longitudinal Shrinkage (%)	>=5
Operating Temperature Range (°C)	-20~75

**Standards**

UL, CE, RoHS