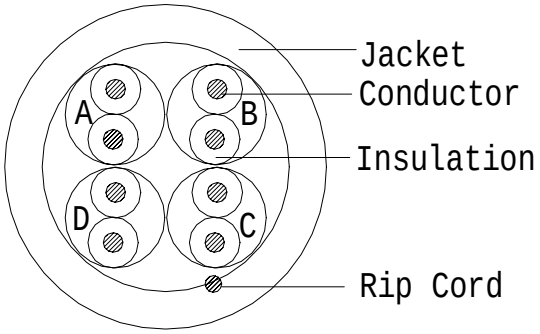
HNC-10 - 4x CAT 5E 350MHZ(BUNDLED)

4X2X0.505 **DATE:2009.12.17**

Cross Section



Description

Rated Temperature (°C)	70
Rated Voltage(V)	30
Product Standard Certification	
Flammability Test	IEC-332-1

Construction

Conductor	**Solid Bare Copper**
AWG	24
Conductor Dia. (mm)	**0.505**
Insulation	**PE**
Average Thickness(mm)	0.20
Min. Point Thickness(mm)	0.18
Insulation Dia.(±0.01mm)	**0.91**
Twisted Pair Dia.(±0.02mm)	1.82
Assembly Dia.(±0.1mm)	**3.80**
Jacket	**PVC**
Average Thickness(mm)	0.65
Min. Point Thickness(mm)	0.60
Outer Dia.(±0.2mm)	**5.20**
Rip Cord	Per request

Color

Insulation:

Blue,White/Blue
Orange,White/Orange
Green,White/Green
Brown,White/Brown

Jacket:

Per request

Marking

STRUCTURED CABLE PRODUCTS---HOME NETWORK CABLE PRO ENHANCED (UL) OR C(UL) E198134 24AWG 4PR UTP
350MHZ CMR FT4 VERIFIED TO TIA/EIA 568B.2
ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9
ROHS ce xxxM

Performance

Electrical Characteristics:

1.0-350.0MHz Impedance (ohms)	100 ± 15
1.0-350.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	95
Resistance Unbalance (%)	<=5

Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)
1	20.0	2.0	68.3
4	23.0	4.1	59.3
8	24.5	5.8	54.8
10	25.0	6.5	53.3
16	25.0	8.2	50.3
20	25.0	9.3	48.8
25	24.3	10.4	47.3
31.25	23.6	11.7	45.9
62.5	21.5	17.0	41.4
100	20.1	22.0	38.3
155	18.8	28.1	35.5
200	18.0	32.4	33.8
240	17.4	36.0	32.6
300	16.8	41.0	31.2
350	16.3	44.9	30.1

Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)
1	66.3	63.8	60.8
4	57.3	51.7	48.7
8	52.8	45.7	42.7
10	51.3	43.8	40.8
16	48.3	39.7	36.7
20	46.8	37.8	34.8
25	45.3	35.8	32.8
31.25	43.9	33.9	30.9
62.5	39.4	27.8	24.8
100	36.3	24.0	21.0
155	33.5	20.0	17.0
200	31.8	17.7	14.7
240	30.6	16.2	13.2
300	29.2	14.2	11.2
350	28.1	12.9	9.9

Mechanical Characteristics:

Test Object		Jacket
Test Material		PVC
Before Aging	Tensile Strength (Mpa)	>=13.8
	Elongation (%)	>=100
Aging Condition (°Cxhrs)		100x168
After Aging	Tensile Strength (Mpa)	>=85% of unaged
	Elongation (%)	>=50% of unaged
Cold Bend(-20±2°Cx4hrs)		No crack