

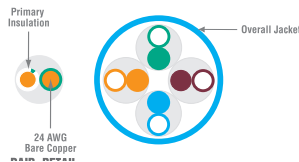
Cat 5E 350MHz UTP Cable



Part Number: BC-C5EPVC-XX

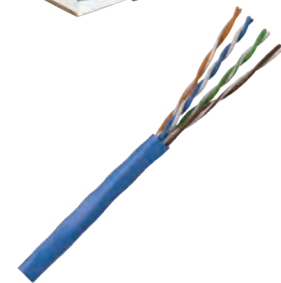
XX=Available in white, blue, black, green, grey, orange, or red

RoHS
COMPLIANT



Specification

Conductor Material	Solid Bare Copper
Jacket Material	PVC
Cable Length	305 m 1000 ft
Diameter Over Jacket (±0.2mm)	5.0 mm 0.197 in
Conductor Dia.	0.483 mm 0.019 in
Insulation	Polyethylene (PE)
Average Thickness(±0.03mm)	0.21 mm 0.008 in
Min. Point Thickness	0.2 mm 0.007 in
Insulation Dia.(±0.03mm)	0.9 mm 0.035 in
Twisting Lay Length	30 mm 1.181 in
Cabling Lay Length(±20mm)	100 mm 3.937 in
Min. Point Thickness	0.43 mm 0.016 in
Rip Cord	YES



Electrical Specification

ANSI/TIA Category	5E
Transmission Standards	ANSI/TIA-568-C.2 ISO/IEC 11801 Class D
Reference Standard	YD/T1019-2001, UL Subject 444
Product Standard Certification	UL File E222804
1.0-100.0MHz Impedance (ohms)	100 ± 15
100-200MHz Impedance (ohms)	100 ± 25
200-350MHz Impedance (ohms)	100 ± 35
1.0-100.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20 (ohms/km)	93.8
Resistance Unbalance (%)	<=5
Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)

General Specifications

Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Jacket Colors	Blue White
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
RoHS 2002/95/EC	Compliant
ISO 9001:2008	

Mechanical Characteristics

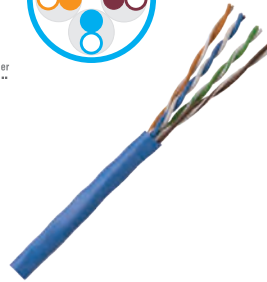
Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	>=13.8
Aging Elongation (%)	>=100
Aging Condition (xhrs)	100x240
After Tensile Strength (Mpa)	>=85% of unaged
Aging Elongation (%)	>=50% of unaged
Cold Bend(-20±2 x4hrs)	No crack

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Electrical Characteristics

F r e q . (MHz)	Return Loss Std.	Attenuataion (dB/100m)	NEXT (dB)	Arc (dB)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (DB/100m)	Delay (ns/100m)
1	2.0	2.0	65.3	65	64.0	66.0	63.0	575.0
4	4.1	4.1	56.3	63	62.3	63.8	60.8	570.0
8	5.8	5.8	51.8	52	53.3	51.7	48.7	552.0
10	6.5	6.5	50.3	46	48.8	45.7	42.7	546.7
16	8.2	8.2	47.2	44	47.3	43.8	40.8	545.4
31.25	11.7	11.7	45.8	39	44.3	39.7	36.7	543.0
62.5	17.0	17.0	44.3	37	42.8	37.7	34.7	542.0
100	22.0	22.0	35.3	34	41.3	35.8	32.8	541.2
155	-	28.1	-	31	39.9	33.9	30.9	540.4
200	-	32.4	-	21	35.4	27.8	24.8	538.6
250	-	36.9	-	13	32.3	23.8	20.8	537.6
350	-	44.9	-	-12.3	26.3	15.8	12.8	494.2
400	-	48.5	-	-18.5	24.1	12.9	9.9	472.4