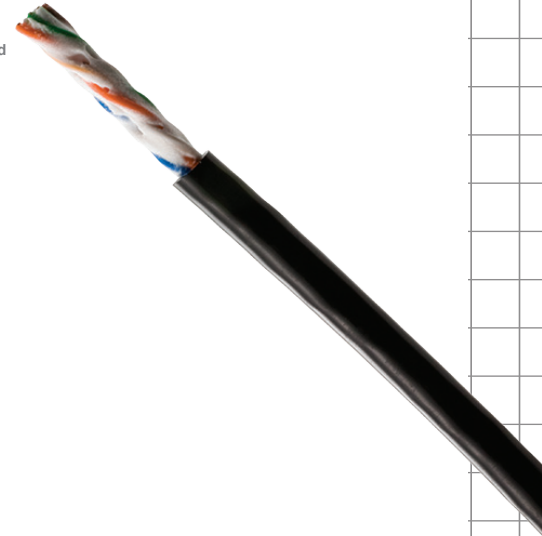
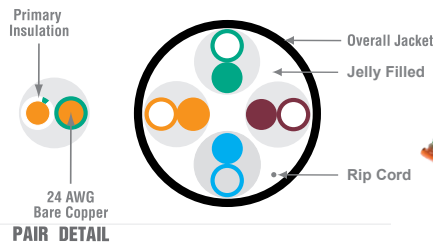


Cat 5e UTP 100MHz Outdoor UV Cable

Part Number: BC-C5-DB

Specification

TIA-568-C.2
ISO/IEC 11801
UL Subject 444
EN 50173



Construction Materials

Conductor Material	Solid Bare Copper
Conductor Gauge	24AWG
Stranding	Solid
Insulation Material	(HDPE) High-Density Polyethylene
Filler Material	Gel Filled
Jacket	(PE) Polyethylene

General Specification

Cable Type	Unshielded Twisted Pair (UTP) Gel-Filled
Pairs, Quantity	4
Jacket Color	Black
Rip Cord	Yes
Conductor Gauge, Singles	24 AWG
Conductor Type, Singles	Solid
Conductors, Quantity	8
Conductor Diameter $\pm 0.005\text{mm}$	0.511 mm 0.020 in
Jacket Thickness $\pm 0.05\text{mm}$	0.55 mm 0.022 in.
Outer Jacket O.D. $\pm 0.3\text{mm}$	5.6 mm 0.22 in.
UV Rated	

Environmental Specifications

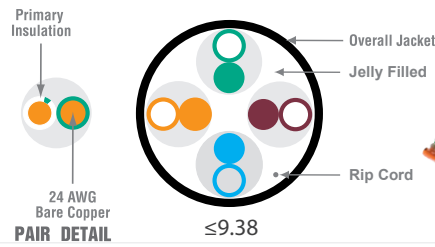
Rated Temperature	+75 °C (+ 167 °F)
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Mechanical Characteristics

Material	PE
Before Aging	
Tensile Strength(Mpa)	≥ 9.65
Elongation(%)	≥ 300
Aging Condition	$(100.0 \pm 1.0) \times 168$
Tensile Strength(Mpa)	$\geq 75\%$ of unaged
Elongation(%)	$\geq 75\%$ of unaged
Cold Bend(4hrs)	No Crack
Heat Shock Test($121.0 \pm 1.0^\circ\text{C} \times 1\text{h}$)	No Crack

Cat 5e UTP 100MHz Outdoor UV Cable

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Electrical Characteristics

DC Resistance at 20°C(Ω/100m)	≤9.38
DC Resistance Unbalance at 20°C(%)	≤5
The Mutual Capacitance at 1KHz,at 20°C(nF/100m)	≤5.6
The Capacitance Unbalance to Ground at 1KHz,at 20°C(pF/100m)	≤330
The Propagation Delay Skew from 1MHz to the Upper Limit of The Category at 20°C, 40°C, and 60°C(ns/100m)	≤45

Frequency	Return Loss	Insertion Loss	NEXT	C.I.	PSNEXT	ACRF	PSACRF	Delay
(MHz)	(dB/100m)	(dB/100m)	(dB/100m)	(Ohm/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
1.00	20.0	2.0	65.3		62.3	63.8	60.8	570
4.00	23.0	4.1	56.3		53.3	51.8	48.8	552
8.00	24.5	5.8	51.8		48.8	45.7	42.7	547
10.00	25.0	6.5	50.3		47.3	43.8	40.8	545
16.00	25.0	8.2	47.2	100±15	44.2	39.7	36.7	543
20.00	25.0	9.3	45.8		42.8	37.8	34.8	542
25.00	24.2	10.4	44.3		41.3	35.8	32.8	541
31.25	23.3	11.7	42.9		39.9	33.9	30.9	540
62.50	20.7	17.0	38.4		35.4	27.9	24.9	539
100.00	19.0	22.0	35.3		32.3	23.8	20.8	538

