BCT60U HighFlex CAT6 U/UTP Networking cable

The BCT60U is a CAT6 networking cable featuring a HighFlex[™] outer jacket which is specifically designed for professional use in highly demanding applications.

The conductor section of the BCT60U consists of 4 twisted pairs with stranded copper 24 AWG conductors with a polyethylene '+' shaped separator in between. Thanks to this separator, better performance in terms of crosstalk and system noise can be achieved resulting in a higher bandwidth.The combination with hard and solid inner jacket materials and soft outer jacket materials provides great flexibility with a solid touch. Even after numerous times of winding and unwinding.

Supports 10Base-T, 100Base-TX, 1000Base-T and 10GBase-T gigabit.



Physical Characteristics				
Type of cable	CAT6 U/UTP Networking cable			
Inner conductor	BC 7 x 0.20 mm (OFC)			
Inner conductor section	0.22 mm ²			
Number of conductors	8 (4 pairs)			
Insulation	HDPE Ø 1.02 mm			
Insulation colour	Blue & Blue / White			
	Orange & Orange / White			
	Green & Green / White			
	Brown & Brown / White			
Twisting lay length	≤ 30mm			
Separator	Cross web filler (PE)			
Inner jacket	Hard PVC			
Inner jacket dimensions	Ø 6.6 mm			
Outer jacket	Soft PVC			
Outer jacket colour	Black			
Outer jacket dimensions	Ø 8.2 mm			
American Wire Gauge	24 AWG			

Electrical Characteristics					
Dielectricum Σr	HDPE				
Max. conductor DC resistance	140 (Ω/Km)				
Max. conductor DC resistance unbal.	5%				
Nom. mutual capacitance	□5.6 (nF/100m)				
Pair to ground capacitance unbalance	□330 (pF/100m)				
Nom. Velocity of propagation	65 %				
Max. Delay / Skew	45 (ns/100m)				
Dielectric strength	1.5 (KV/1min. DC)				
Nom. shield DC resistance	(Ω/Km)				
Characteristic impedance	100Ω +/-15Ω				
Voltage rating	300V				

Cross section



Standards & regulations				
RoHS2 compliant	According EU Directive 2011/65/EU			
Reach compliant	According EC 1907/2006			
Flammability test	According IEC 60332-1			
Indoor / outdoor	Indoor			
Cabling standard	ISO/IEC11801; IEC61156; UL444;			
	ANSI/TIA-568-C.2			

Mechanical Characteristics				
Temperature range	fixed installation	-20° C till +75° C		
	flexible installation	-15° C till +60° C		
Bending radius	fixed installation	10 x cable Ø OD		
	flexible installation	12 x cable Ø OD		

Ordering & packaging					
BCT60U/1	IEC 60332-1, Black	100 m wooden reel			
BCT60U/3	IEC 60332-1, Black	300 m wooden reel			

Recommended accessories & connections				
RJ45 Connector	Procab			





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Additional specifications

Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFNEXT	PS ELFNEXT	PD
(MHz)	Zu (Ω)	ZI (Ω)	(dB/100m)	(dB Min)	(ns/100m Max)				
1	-	-	2.4	20.0	74.3	72.3	67.8	64.8	570
4	115.2	86.8	4.5	23.0	65.3	63.3	55.8	52.8	552
8	112.6	88.8	6.4	24.5	60.8	58.8	49.7	46.7	547
10	111.9	89.4	7.1	25.0	59.3	57.3	47.8	44.8	545
16	111.9	89.4	9.1	25.0	56.2	54.2	43.7	40.7	543
20	111.9	89.4	10.2	25.0	54.8	52.8	41.8	38.8	542
25	112.9	88.5	11.4	24.2	53.3	51.3	39.8	36.8	541
31.25	114.1	87.7	12.8	23.3	51.9	49.9	37.9	34.9	540
62.5	118.3	84.5	18.5	20.7	47.4	45.4	31.9	28.9	539
100	121.9	82.0	23.8	19.0	44.3	42.3	27.8	24.8	538
200	128.8	77.6	34.8	16.4	39.8	37.8	21.8	18.8	537
250	131.5	76.0	39.4	15.6	38.3	36.3	19.8	16.8	536