



Networking cable - CAT6 - U/UTP - flex 0.22 mm² - 24 AWG - HighFlex™

Highlights:

- 24 AWG thin and dense stranded conductors
- Highflex™ solid & flexible jacket
- · 8.2 mm (Ø) outer diameter

Product information:

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.



Properties:











Inner Conductors:



Product Features:

Application	Rental & MI
Series	Bulk & Accessories

Physical Characteristics:

Type of cable			U/UTP CAT6 Networking cable		
Inner conductor	Material		BC 7 x 0.2 mm (Ø) (OFC)		
	Section		0.22 mm ²		
	Number of conductors		8 (4 pairs)		
	Insulation Material		HDPE 1.02 mm (Ø)		
	Audio	Conductor twisting	Lay length ≤ 30 mm		
	Insulation	Colours	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown		
Separator			Cross web Filling (PE)		
Inner jacket	Material		Durable PVC 6.6 mm (Ø)		
Outer jacket	Material		Flexible PVC 8.2 mm (Ø)		
	Colours		Black		
Inner conductor	American Wire Gauge		24 AWG		

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-EIA 568C.2

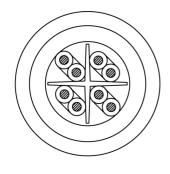
Mechanical Characteristics:

Temperature range	Fixed installation	- 20 °C till + 75 °C		
	Mobile installation	- 15 °C till + 60 °C		
Bending radius	Fixed installation	10 x outer diameter		
	Mobile installation	12 x outer diameter		

Electrical Characteristics:

Max. conductor	DC resistance	140 (Ω / Km)		
	DC resistance unbalanced	5 %		
Dielectric strength		1.5 (KV / 1 min. DC)		
Max. Delay / Skew		45 (ns / 100 m)		
Nom. Velocity of pro	opagation	65 %		
Characteristic impe	dance	100 Ω ± 15 Ω		
Nom. mutual capac	itance	≤ 5.6 (nF / 100 m)		
Pair to ground capa	citance unbalance	≤ 330 (nF / 100 m)		

Cross sections:



Variants:

- BCT60U/1 100 m wooden reel
- BCT60U/3 300 m wooden reel

Additional specifications:

Frequency (MHz)	Impedance	Characteristic A' Impedance Lower limit - Zl (Ω)	TT (dB/100m)	RL (dB Min)	NEXT (dB Min)	PS NEXT (dB Min)	ELFNEXT (dB Min)	PS ELFNEXT (dB Min)	PD (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