## BCT65S HighFlex<sup>™</sup> CAT6A S/FTP Networking cable

The BCT65S is a CAT6A networking cable featuring a HighFlex<sup>™</sup> outer jacket which is specifically designed for professional use in highly demanding applications.

The conductor section of the BCT65S consists of 4 pairs with solid 24 AWG conductors which are individually shielded by an aluminum foil while the entire section is surrounded by an overall braiding. Due to the double shielding, better performance in terms of crosstalk and system noise is achieved resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices.

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.

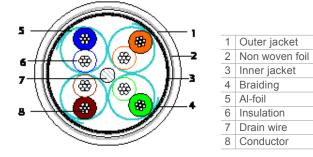
Supports 10Base-T, 100Base-TX, 1000Base-T and 10GBase-T gigabit. Supports Dante, Cobranet, Ethersound, HdbaseT and other AV network protocols



Physical Characteristics					
Type of cable	CAT6A S/FTP Networking cable				
Inner conductor	BC 7 x 0.20 mm (OFC)				
Inner conductor section	0.22 mm <sup>2</sup>				
Number of conductors	8 (4 pairs)				
Insulation	Foamed PE Ø 1.32 mm				
Insulation colour	Blue & Blue / White				
	Orange & Orange / White				
	Green & Green / White				
	Brown & Brown / White				
Twisting lay length	≤ 30mm				
Shielding 1	Individual Al-foil				
	100% coverage - 25% Overlap				
Shielding 2	Braiding TC 10 x 12 x 0.08 mm				
	> 80% coverage				
Inner jacket	Hard PVC				
Inner jacket dimensions	Ø 7.2 mm				
Separator	Non woven foil				
Outer jacket	Soft PVC				
Outer jacket colour	Black				
Outer jacket dimensions	Ø 8.7 mm				
American Wire Gauge	24 AWG				

Electrical Characteristics					
Dielectricum Sr	Foamed PE				
Max. conductor DC resistance	95 (Ω/Km)				
Max. conductor DC resistance unbal.	2%				
Nom. mutual capacitance	□5.6 (nF/100m)				
Pair to ground capacitance unbalance	□160 (pF/100m)				
Nom. Velocity of propagation	74 %				
Max. Delay / Skew	25 (ns/100m)				
Dielectric strength	1.5 (KV/1min. DC)				
Nom. shield DC resistance	(Ω/Km)				
Characteristic impedance	100Ω +/-15Ω				
Voltage rating	72V				

## 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					
BCT65S/1	IEC 60332-1, Black	100 m wooden reel			
BCT65S/3	IEC 60332-1, Black	300 m wooden reel			

Recommended accessories & connections					
Ethercon male	Neutrik	NE8MX6 series			
Ethercon chassis	Neutrik	NE8FDX series			





MOBILE				
STAGE				

Procab reserves the right to change specifications without notice, this is part of our policy to continually improve our products. www.procab.be



## Additional specifications

Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFEXT (ACR-F)	PS ELFEXT (PS ACR-F)	PD
(MHz)	Zu (Ω)	ZI (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
4	115.2	86.8	4.6	23.0	66.3	63.3	56.0	53.0	552.0
8	112.6	88.8	6.4	24.5	61.8	58.8	49.9	46.9	546.7
10	111.9	89.4	7.1	25.0	60.3	57.3	48.0	45.0	545.4
16	111.9	89.4	9.0	25.0	57.2	54.2	43.9	40.9	543.0
20	111.9	89.4	10.1	25.0	55.8	52.8	42.0	39.0	542.0
25	113.2	88.3	11.3	24.2	54.3	51.3	40.0	37.0	541.2
31.25	114.6	87.2	12.6	23.3	52.9	49.9	38.1	35.1	540.4
62.5	120.2	83.2	18.0	20.7	48.4	45.4	32.1	29.1	538.6
100	125.3	79.8	23.0	19.0	45.3	42.3	28.0	25.0	537.6
200	135.7	73.7	33.1	16.4	40.8	37.8	22.0	19.0	536.5
250	140.0	71.4	37.3	15.6	39.3	36.3	20.0	17.0	536.3
300	139.8	71.5	41.1	15.6	38.1	35.1	18.5	15.5	536.1
400	139.8	71.5	48.1	15.6	36.3	33.3	16.0	13.0	535.8
500	139.8	71.5	54.3	15.6	34.8	31.8	14.0	11.0	535.6