PRX656
Reel with *HighFlex* CAT6A S/FTP cable

PROCAB

★★★★☆

The PRX656 is a *HighFlex* CAT6A S/FTP cable (BCT65S) assembled on a lightweight, extremely strong and impact resistant reel (CDM310).

Both ends are terminated by Neutrik Ethercon connectors, allowing direct connection from transmitting to receiving end without any additional connections or patch cords. A connection tail of 5 meters (included in total reel length) is wounded to the front side cable winder.

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.
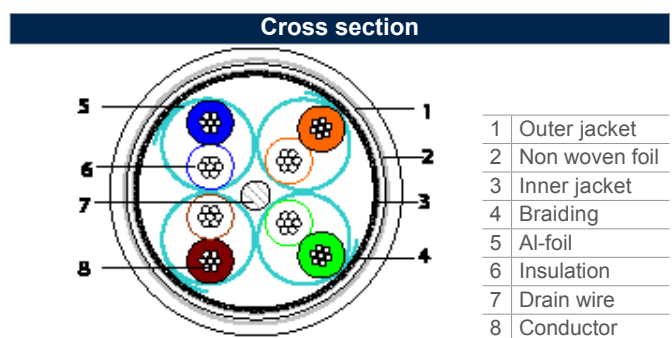Supports Dante, Cobranet, Ethersound, HdbaseT and other AV network protocols

MOBILE

STAGE

IEC 60332	Meter indicator	CAT6A 500 MHz	Bi-Jacketed	Shielded

Physical Characteristics

Type of cable	CAT6A S/FTP Networking cable
Inner conductor	BC 7 x 0.20 mm (OFC)
Inner conductor section	0.22 mm²
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
Connection type	Ethercon male to Ethercon male
Fitted connectors	NE8MX6-B (2x)
Dimensions (W x H x D)	312 x 392 x 234 mm

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

PRX656/50	50 meter version with 5 meter tail
PRX656/70	70 meter version with 5 meter tail
PRX656/90	90 meter version with 5 meter tail

Electrical Characteristics

Dielectricum Σr	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

1	Outer jacket
2	Non woven foil
3	Inner jacket
4	Braiding
5	Al-foil
6	Insulation
7	Drain wire
8	Conductor

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)	Zl (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

Above indicated values are measured by BCT65S cable according to the ANSI/TIA-568-C.2 (100 meter) specification

For measurement reports on other specific lengths (50, 70 and 90 meters) refer to the LinkWare test reports available on www.procab.be