

# PRX606

## Reel with *HighFlex* CAT6 U/UTP cable



The PRX606 is a *HighFlex* CAT6 U/UTP cable (BCT60U) assembled on a lightweight, extremely strong and impact resistant reel (CDM310).

Both ends are terminated by male RJ45 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 wound to the front side cable winder. The connectors are fitted with removable connector boots, allowing assembly of Neutrik Ethercon connector shells.

The conductor section consists of 4 twisted pairs with stranded copper 24 AWG conductors with a polyethylene '+' shaped separator in between. 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.



MOBILE

STAGE

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 <sup>2</sup>
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
Connection type	RJ45 male to RJ45 male
Dimensions (W x H x D)	312 x 392 x 234 mm
Weight	

Electrical Characteristics	
Dielectricum $\Sigma r$	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

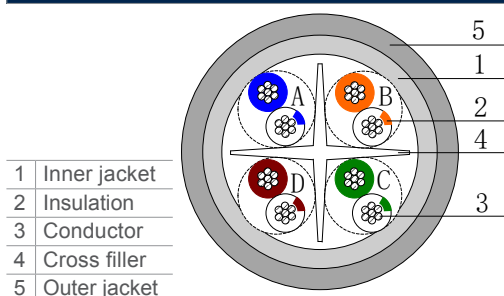
Standards & regulations	
RoHS2 compliant	According EU Directive 2011/65/EU
Reach compliant	According EC 1907/2006
Flammability test	According IEC 60332-1
Indoor / outdoor	Indoor
Cabling standard	ISO/IEC11801; IEC61156; UL444; ANSI/TIA-568-C.2

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	
PRX606/50	50 meter version with 5 meter tail
PRX606/70	70 meter version with 5 meter tail
PRX606/90	90 meter version with 5 meter tail

Recommended accessories & connections	
Ethercon shell for preassembled RJ45 plug	Neutrik NE8MC

### Cross section



# Additional specifications



Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFNEXT	PS ELFNEXT	PD
(MHz)	Zu ( $\Omega$ )	Zl ( $\Omega$ )	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(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

Above indicated values are measured by BCT60U cable according to the ANSI/TIA-568-C.2 (100 meter) specification

For measurement reports on other specific lengths (50 or 70 meters) refer to the LinkWare test reports available on [www.procab.be](http://www.procab.be)