PRX606

Cable reel - networking cable - CAT6 - U/UTP - RJ45 - HighFlex™

Highlights:

- 24 AWG thin and dense stranded conductors
- Highflex™ solid & flexible jacket
- 8.2 mm (Ø) outer diameter
- Polycarbonate (PC) frame
- Unbreakable, impact resistant polyethylene (PE) drum
- Lightweight (1.8 kg)



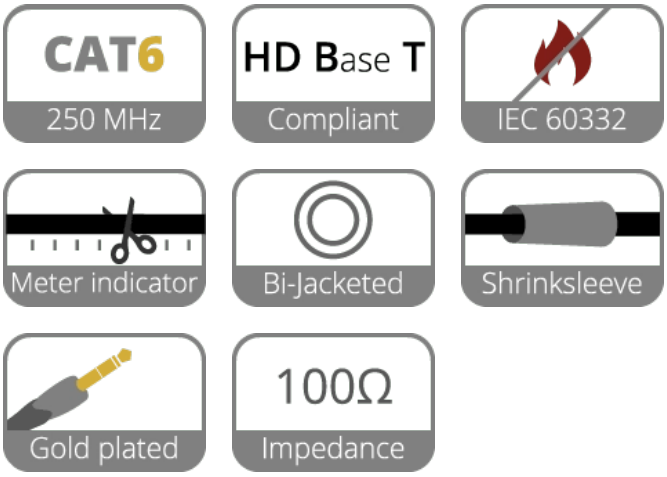
Product information:

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 wounded to the front side cable winder. The connectors are fitted with removable connector boots, allowing assembly of Neutrik etherCON connector shells (Neutrik NE8MC or NE8MC-B). 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.

Components:

- CableType: BCT60U - Networking cable - CAT6 - U/UTP - flex 0.22 mm² - 24 AWG - HighFlex™
- Reel: CDM310 - Professional plastic cable reel Ø 312 mm

Properties:



Product Features:

Dimensions	312 x 392 x 234 mm (W x H x D)
Application	Rental & MI
Series	Prime Series

We reserve the right to change specifications without notice, this is part of our policy to continually improve our products.

Physical Characteristics:

Inner conductor	Insulation	Material	HDPE 1.02 mm (Ø)
		Colours	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
Inner jacket	Material		Durable PVC 6.6 mm (Ø)
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Outer jacket	Material		Flexible PVC 8.2 mm (Ø)
	Colours		Black
Type of cable			U/UTP CAT6 Networking cable
Inner conductor	Material		BC 7 x 0.2 mm (Ø) (OFC)
	Section		0.22 mm²
Separator			Cross web Filling (PE)
Inner conductor	American Wire Gauge		24 AWG
	Number of conductors		8 (4 pairs)
	Conductor twisting		Lay length ≤ 30 mm
Connection type			RJ45 male to RJ45 male

Standards & regulations:

RoHS2 compliant	According EU Directive 2011/65/EU
Reach compliant	According EC 1907/2006
Indoor / outdoor	Indoor
Cabling standard	ISO/IEC11801
	IEC61156
	UL444
	ANSI TIA-EIA 568C.2

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)
Rated voltage		300 V
Nom. Velocity of propagation		65 %
Characteristic impedance		100 Ω ± 15 Ω
Nom. mutual capacitance		≤ 5.6 (nF / 100 m)
Pair to ground capacitance unbalance		≤ 330 (nF / 100 m)

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

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Variants:

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

Additional specifications:

Frequency (MHz)	Characteristic Impedance Upper limit - Zu (Ω)	Characteristic Impedance Lower limit - Zl (Ω)	ATT (dB/100m)	RL (dB Min)	NEXT (dB Min)	PS NEXT (dB Min)	ELFEXT (ACR-F) (dB Min)	PS ELFEXT (PS ACR-F) (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

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, 70 and 90 meters) refer to the LinkWare test reports available on www.procab.be

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