

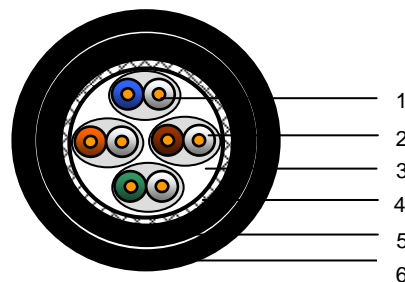
CA00242

Cable assembly with

1303EPU CatSnake® cable

With 2x Neutrik field installable RJ45

connectors NE8MX6 on Schill GT450.RM reel



Applications

- Field deployable CAT6a patch horizontal and building backbone cable
- CobraNet, eSnake, Ethersound, Digital audio over Ethernet
- Support current and future Category 6A and 6 applications, such as:
- 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM
- Compatible connectors Belden R301601 000S1 (T568A) and R301602 000S1 (T568B)

General Standards

- International standard: ISO/IEC 11801 2nd edition (2002) and ISO/IEC 11801 Amendment 2 (2010)
- European standard: EN 50173-1 (2002) and EN 50173-1 Amendment 1 (2009)
- U.S. Standard: ANSI/TIA/EIA 568-B.2-10 (2008)

Construction

1) CatSnake® cable

1. Conductor

Material	Stranded bare copper ETP
Diameter	AWG 24/7

2. Insulation

Material	Foamed polyethylene
Nominal diameter over insulation	1.4 mm

3. Cable core

Pair	2 twisted insulated conductors with overall foil
Foil	Laminated aluminium-polyester Aluminium facing outside
Number of shielded pairs	4, all twisted together with AWG 26 tinned copper drain wire
Colour code pair 1	White / Blue
Colour code pair 2	White / Orange
Colour code pair 3	White / Green
Colour code pair 4	White / Brown

4. Braid

Material	Solid tinned copper
Coverage	≥ 80%

5. Inner jacket

Material	Matte rugged PVC
Diameter	7.2 ± 0.3 mm
Colour	Black (RAL 9005)

6. Outer jacket

Foil under jacket	Non woven foil
Material	Matte rugged PUR
Diameter	8.7 ± 0.3 mm
Colour	Black (RAL 9005)

2) Connector (2x)

Type	Neutrik Cat. 6A etherCon connector NE8MX6 RJ45 T568B shielded AWG22-24 field installable connector
Belden code	VA00068 (NE8MX6)

3) Reel

Type	Schill GT 450.RM
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4) Assembly

Cable on reel with 5m excessive length on front. Connector on both ends of the cable.

Electrical requirements

NEXT requirement:	1dB margin compared to ISO/IEC 11801:2002/Amd 2:2010	(See table below)
Return loss requirement:	1dB margin compared to ISO/IEC 11801:2002/Amd 2:2010	(See table below)
Current Rating:	1.5 A	
Insulation Resistance:	500 MΩ min.	
Contact Resistance:	20 mΩ max.	
Dielectric Strength:	1000 VAC (rms)	
Voltage:	72 VDC max.	

Typical performance

Frequency	1*	4	10	16	31.2	62	100	200	250	300	500	MHz
Attenuation	2.2	4.1	6.2	7.9	11.1	15.8	202	29.1	32.8	36.2	47.8	dB/100m
NEXT	90	90	90	90	90	90	88	80	78	75	70	dB
Return loss	20.8	30	30	30	30	29	27	24	22	20	17	dB

Values below 4 MHz are for information only.

Mechanical requirements

Insertion Life:	750 mating cycles
Temperature rating installation:	0 / 50°C
Temperature rating operation and storage:	-20 / 60°C
Temperature range (un)winding	-10 / 60°C

Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

