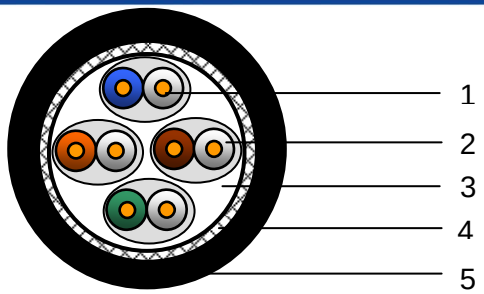
CA00238

Cable assembly with
1302E 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)

2) Connector (2x)

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

3) Reel

Type	Schill GT 450.RM

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 / 50ºC
Temperature rating operation and storage:	-20 / 60ºC
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.