DNS

Data Network System

DNS CABLE CAT6 UTP LSZH 400124 B2ca

- EC Verified
- 100% tested acc. to ISO/IEC 11801; EN 50173-1; ANSI/TIA-568-C
- 25 Year DNS Warranty
- RoHS Compliant

EC VERIFIED **CE** **RoHS COMPLIANT**

FEATURES

- 25 year DNS Warranty
- EC Verified
- Central `X` Filler
- 23AWG conductor
- 305m Box
- 100% tested acc. to ISO/IEC 11801; EN 50173-1:2018/EN 50173-2:2018

- Rip Cord
- Low Smoke and Halogen Free Outer Sheath
- Part no. 400127
- CRP B2ca-s1a,d1,a1

CONSTRUCTION

Outher Diameter(±0.3mm)	6.46mm
Jacket Nom. Thickness	0.65mm FR-LSZH(Low Smoke Zero Halogen)jacket
Conductor	Solid Bare Copper AWG23
Operating Temperature	-10°C to +60°C
Installation Temperature	-10°C to +60°C
Minimum Bend Radius	4x overall diameter installed, 8x during installation
Cable Weight	4,3 Kg/100m
305m Box Weight	15.6 Kg (inc. box)
Box Dimensions	215mm wide x 408mm high x 408mm deep
Combustible material mass	2,4 Kg/100m
Standard of flame retardancy	IEC60332-1-1:2015; IEC60332-1-2:2015
	IEC60754-2:2011; EN50575:2014 +A1:2016
	IEC61034-1:2013; IEC60134-2:2013

PERFOMANCE OVERVIEW

Category 6 cables are manufactured and tested to the Category 6 performance standards defined by the TIA, ISO and EN standards bodies. Actual performance far exceeds the required standard.

The cable is also compatible with Category 5 and 5e components.

PERFOMANCE TEST DATA

Freq MHz	NEXT (dB)	ATT(dB)	RL (dB)	PS NEXT (dB)	ELFEXT (dB)	PS ELFEXT (dB)
	DNS	DNS	DNS	DNS	DNS	DNS
1	72.3	2.0	20.0	72.3	65.0	72.6
10	57.3	5.8	25.0	57.3	45.0	51.8
16	54.2	7.4	25.0	54.2	40.9	47.5
20	52.8	8.3	25.0	52.8	39.0	45.5
25	51.3	9.3	24.8	51.3	37.6	43.5
31.25	49.9	10.4	23.6	49.9	35.1	41.5
62.5	45.4	15.1	21.5	45.4	29.1	35.2
100	42.3	19.3	20.1	42.3	25.0	31.0
200	37.8	28.2	18.0	37.8	19.0	24.7
250	36.3	39.5	17.3	36.3	17.0	12.8

TYPICAL APPLICATIONS

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Ethernet
- 10GBase UP to 55m*
- Horizontal cabling
- LAN networks
- Telephone
- Audio
- Video

*DNS Cat6 UTP perform in non hostile Alien Crosstalk environment up to 55m, but in hostail(lot of cables bundeled together) Alien Crosstalk environment DNS cat6 UTP perform up to 37m.

ELECTRICAL CHARACTERISTICS

Dielectric strength	AC 500V/1 min
Input Impedance	100Ω±15% 1-100MHz 100Ω±22% 101-250MHz
Conductor resistance	9,5Ω/100m
DC Resistance unbalance	max 4%
Pair-to-ground capacitance unbalance	max 1600pF/km
Delay skew	45ns/100m

DNS WARRANTY SYSTEM

The DNS System Warranty provides a 25-year product and applications warranty. The guarantee cover system and application performance according to EN50173-1:2002, ANSI/TIA/EIA-568-B.2:2002 and ISO/IEC 11801-2 at the time of proper signed application form. The warranty may be applied by the certified DNS Partner.