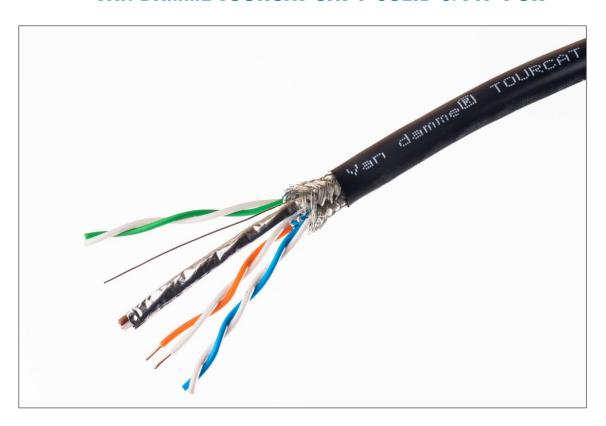


VAN DAMME TOURCAT CAT 7 SOLID S/FTP PUR



Van Damme TourCat Cat 7 S/FTP solid conductor is a polyurethane (PUR) jacketed 0.56 mm solid conductor cable with individually screened pairs and an 80% coverage overall braided screen. Suitable for Gigabit and 100 Mbit data and ethernet based digital audio & video transmissions to the maximum length shown in the Application Notes below.

Applications

- Long run cables for Ethernet and Ethernet based protocols
- Tough PUR jacket for robust touring and dynamic use
- Ideal for use with the Neutrik Cat 6_A Ethercon

Application Notes

- Meets the requirements of ISO/IEC 11801 Class F
- NB When terminated with an RJ45 connector the assembly will be rated as Cat 6A only
- Suitable for Gigabit and 100 Mbit to a maximum recommended channel link distance of 105 metres
- Suitable for 10G Cat 6A to a maximum recommended channel link distance of 95 metres
- Tested using a Fluke DTX1800 cable verifier. Longer runs are possible but are not guaranteed



Mechanical Specifications

Conductor Material Solid bare copper

Overall diameter 0.56 ± 0.01 mm (0.246 mm²) AWG 23

Dielectric Material Skin/Foam/Skin Polyethylene

> Diameter $1.33 \pm 0.10 \, \text{mm}$

Construction 4 x twisted pair Pair 1: White-Blue, Pair 2: White-Orange,

Pair 3: White-Green, Pair 4: White-Brown

Pair Screen Material Aluminium/Polyester foil

≥115% Coverage

Common Drain Wire Material Solid tinned copper

Overall Diameter 0.40 ± 0.10 mm

Overall Screen Material Tinned copper braid

> Stranding (mm) 0.12 x 16 x 9 $80 \pm 5 \%$ Coverage

Overall Jacket Polyurethane (PUR) Material

Colour Jet Black RAL 9005 Overall diameter $7.80 \pm 0.20 \, \text{mm}$

Physical Properties

Operating Temperature -10 to +60 °C

Electrical Specifications

Characteristic Impedance (Ω) 1-100 MHz 100 ± 15

 100 ± 20 100-250 MHz 250-600 MHz 100 ± 25

Velocity of Propagation 70 % nominal Skew

< 0.20 ns

Resistance @20°C Conductor ≤86 Ohms/km

Frequency Attenuation **NEXT** PSNEXT ELFEXT PSELFEXT Return Loss (MHz) (dB/100m) (dB) (dB) (dB/100m) (dB) 3.74 78.00 75.00 78.00 75.00 23.01 10 5.86 78.00 75.00 75.30 72.30 25.00 7.41 78.00 75.00 25.00 71.22 68.22 16 10.41 78.00 75.00 65.40 23.64 31.25 62.40 59.38 62.50 14.88 75.46 72.46 56.38 21.54 72.40 69.40 55.30 52.30 100 19.02 20.11 30.97 66.43 47.34 44.34 17.30 250 63.43 500 45.26 61.92 61.92 41.32 38.32 17.30 60.73 60.73 39.74 17.30 600 50.10 36.74



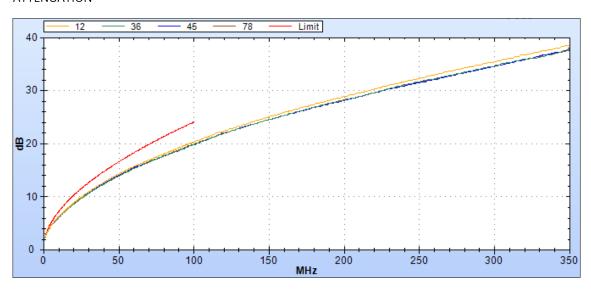
Electrical Specifications (cont.)

Fluke DTX1800 Test Results:

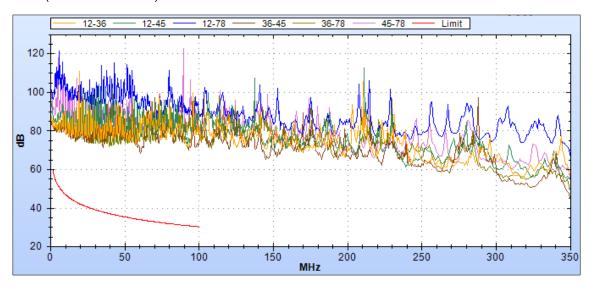
NB All test results are for 105 metres shielded RJ45 termination (S/FTP), Category 5E channel link

Category 6A 10G Fluke test results are available on request

ATTENUATION



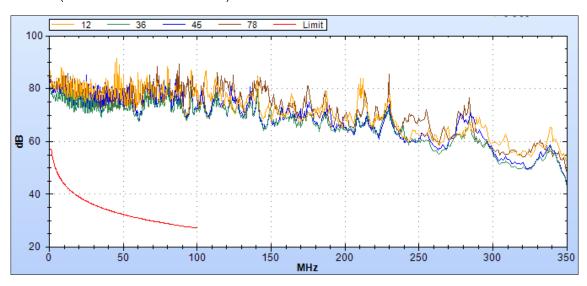
NEXT (Near End Cross Talk)



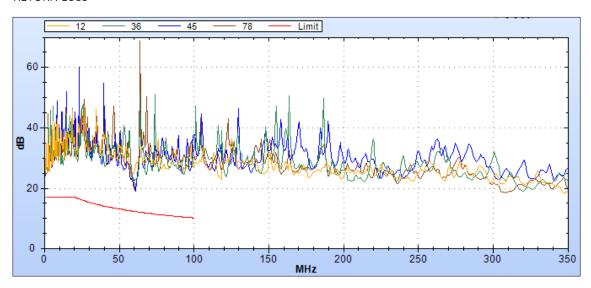


Electrical Specifications (cont.)

PS-NEXT (Power Sum Near End Crosstalk)



RETURN LOSS



Part Number & Description

Part number Description RAL code Max. Reel length

268-470-000 Van Damme TourCat 7 Solid S/FTP Jet Black RAL 9005 500m



Recommended RJ45 Connectors

Screened:

Van Damme Shielded Cat 6_A RJ45 (oversize conductors), part no. 351-000-000

Neutrik NE8MX6-T Ethercon cable connector (nickel) Neutrik NE8MX6-B-T Ethercon cable connector (black) Neutrik NE8FDX-Y6 Ethercon chassis IDC connector (nickel) Neutrik NE8FDX-B-Y6 Ethercon chassis IDC connector (black)

Connector selection criteria:

Conductor size 23AWG solid; conductor diameter 1.33 mm; overall diameter 7.80 mm

Compliance

ISO/IEC 11801

RoHS 2 (2011/65/EU)

REACH

CPR Class Fca Not for installation use

Architectural Specification

Tour grade Category 6_A / Category 7 solid conductor PUR jacketed cable (field deployable)

The cable shall be a field deployable, polyurethane jacketed 23 AWG solid conductor Category 7 cable compliant with ISO/IEC 11801, with a conductor diameter of 1.33 mm and an overall diameter of 7.80 mm. The cable shall be designed for dynamic use and multiple rigging and de-rigging operations, and shall maintain Category 5E channel performance up to a length of 105 metres, and Category 6A channel performance up to a length of 95 metres.

It shall be CPR Class Fca, and therefore not suitable for installation.