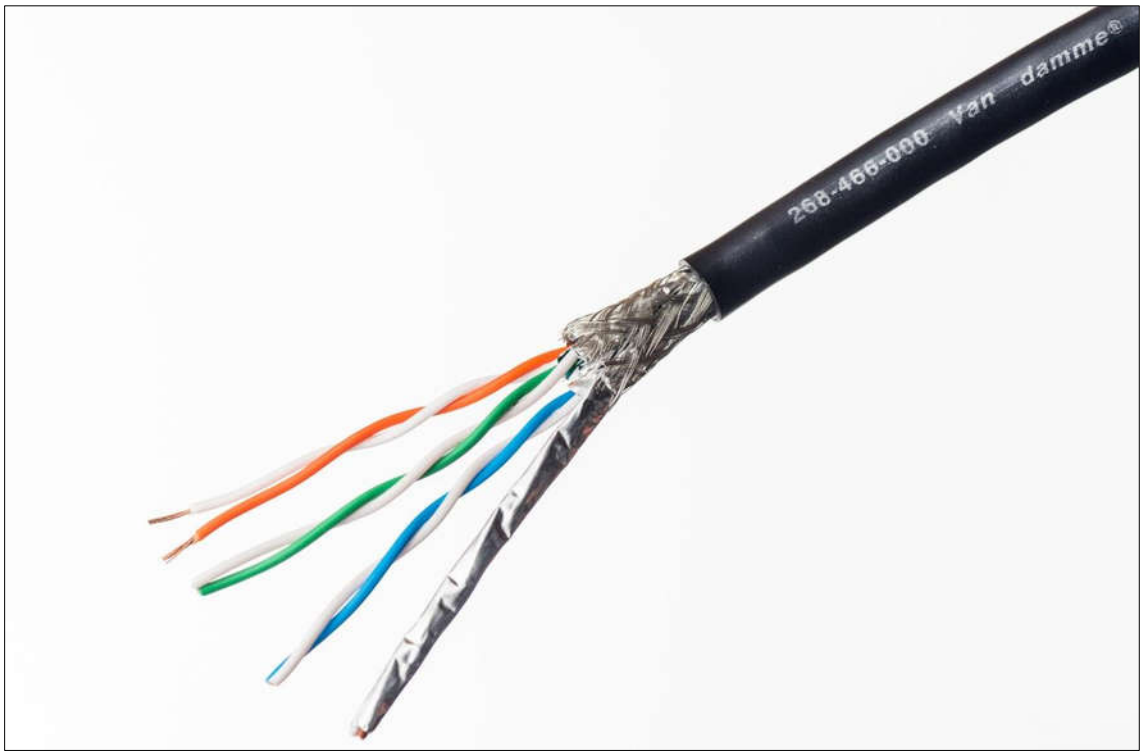
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VAN DAMME TOURCAT CAT 6A FLEXIBLE S/FTP



Van Damme TourCat Cat 6_A S/FTP stranded conductor is a flexible PVC jacketed 26 AWG stranded conductor cable with individually screened pairs and a 75 % 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.



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Applications

- Patch cords and link cables for Ethernet and Ethernet based protocols
- Flexible and robust for touring and dynamic use
- Ideal for use with the Neutrik Cat 6A Ethercon

Application Notes

- Meets the requirements of Category 6A TIA/EIA-568-C-2 and ISO/IEC 11801 Class EA
- Suitable for Gigabit and 100 Mbit to a maximum recommended channel link distance of 75 metres
- Suitable for 10G Cat 6A to a maximum recommended channel link distance of 60 metres
- Tested using a Fluke DTX1800 cable verifier. Longer runs are possible but are not guaranteed

Mechanical Specification

Conductor	7 x 0.16 mm bare oxygen free copper
Conductor size	7 x 0.16 mm, 0.14 mm^2, AWG 26/7
Dielectric	Skin/Foam/Skin Polyethylene
Diameter	1.02 ± 0.10 mm
Colour Code	Pair 1: White-Blue, Pair 2: White-Orange, Pair 3: White-Green, Pair 4: White-Brown
Pair Screen	Aluminium/Polyester foil > 125% coverage
Overall Screen	0.10 x 16 x 9 tinned copper braid 75 ± 5 % coverage
Jacket material	Flexible PVC Jet Black RAL 9005
Overall diameter	6.50 ± 0.20 mm
Bend radius	10 x overall diameter
Operating temperature	-20 to +80 °C

Electrical Specification

Conductor resistance		≤ 142 Ohms/km
Characteristic Impedance (Ω)	1-100 MHz	100 ± 15
	100-250 MHz	100 ± 20
	250-500 MHz	100 ± 25
Capacitance (core to core)		54 pF/m
Velocity of Propagation		68 %
Skew		< 0.20 ns

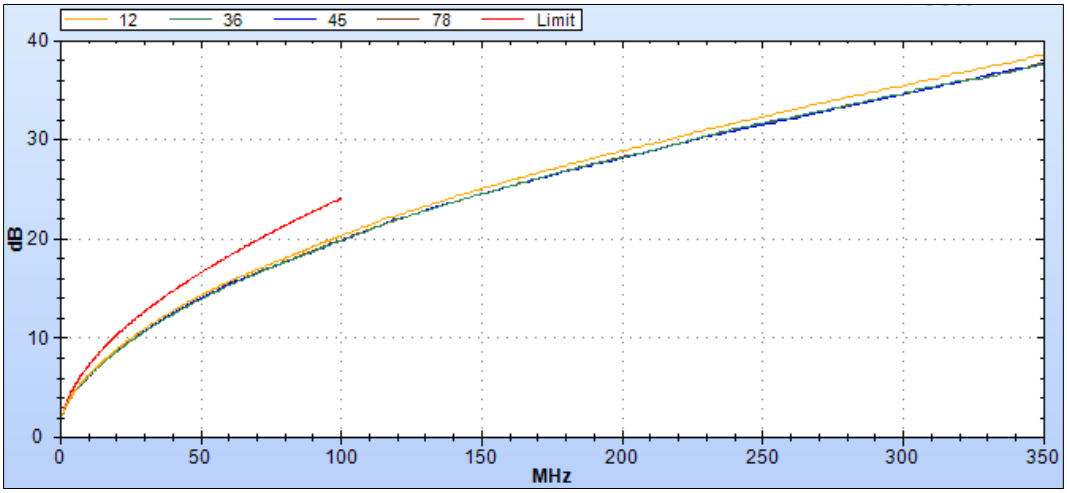
Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Return Loss (dB)
4	5.80	66.30	63.30	56.00	53.00	23.00
10	9.00	60.30	57.30	48.00	45.00	25.00
16	11.40	57.20	54.20	43.90	40.90	25.00
31.25	16.10	52.90	49.90	38.10	35.10	23.60
62.50	23.30	48.40	45.40	32.10	29.10	21.50
100	29.90	45.30	42.30	28.00	25.00	20.10
250	49.70	39.30	36.30	20.00	17.00	17.30
400	65.00	36.30	33.30	16.00	13.00	15.90
500	74.10	34.80	31.80	14.00	11.00	15.20

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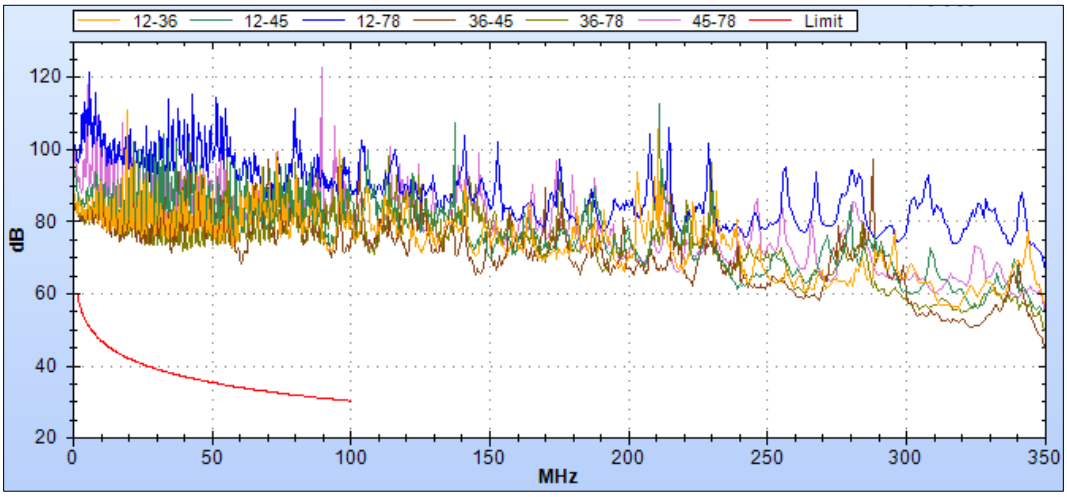
Fluke DTX1800 Test Results:

NB All test results are for 75 metres shielded RJ45 termination (S/FTP), Category 5E channel link
Red line denotes performance limits

ATTENUATION

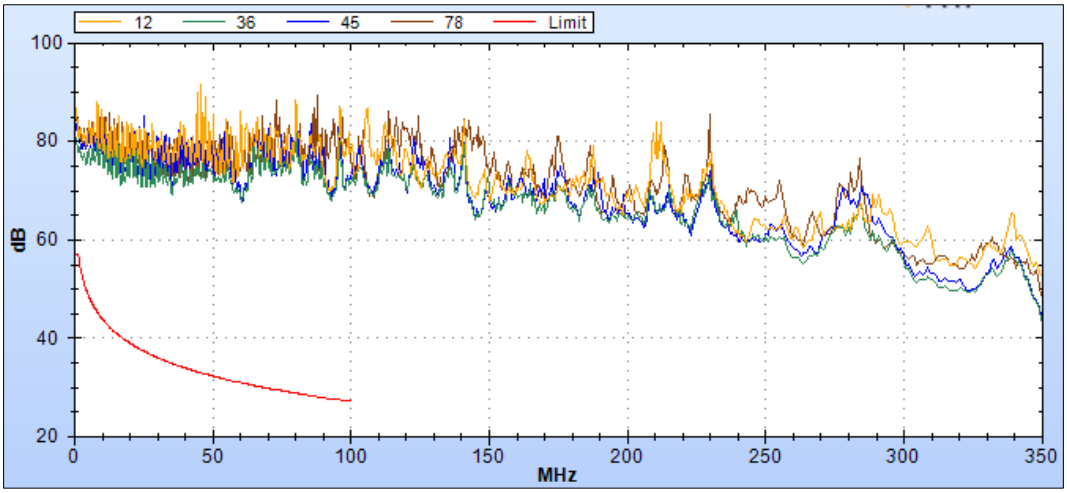


NEXT (Near End Cross Talk)

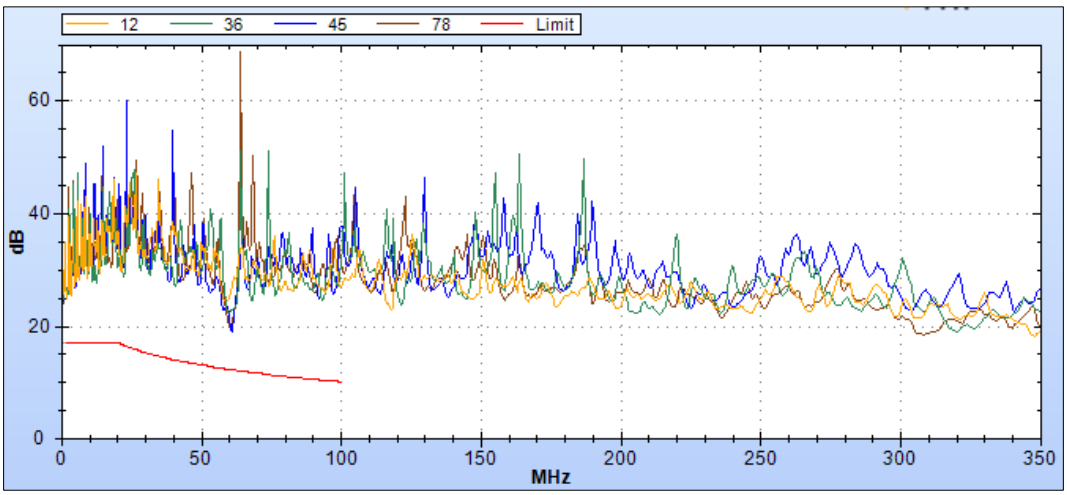


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PS-NEXT (Power Sum Near End Crosstalk)



RETURN LOSS



Part Number & Description

Part number	Description	Max. Reel length
268-466-000	Van Damme TourCat Cat 6A Flexible S/FTP	500 m

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Recommended RJ45 Connectors

Van Damme Shielded Cat 6A RJ45, part no. 351-000-002

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 26AWG stranded; conductor diameter 1.02 mm; overall diameter 6.50 mm

Compliance

TIA/EIA-568-C-2
ISO/IEC 11801

RoHS 2011/65/EU	Restriction of Hazardous Substances
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals