












THE ROUTE OF LEAST RESISTANCE

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VAN DAMME TOURCAT CAT 5E FLEXIBLE F/UTP



Van Damme Flexible Cat 5E TourCat is a stranded Cat 5E patch cable with the feel and flexibility of Van Damme Microphone cable. Suitable for Gigabit and 100Mbit data and ethernet based digital audio & video transmissions to the maximum length shown in the Application Notes below.

KEY BENEFITS		MATERIALS			APPLICATIONS			
								
Flexibility	Category 5E TIA/EIA-568-C-2	Oxygen Free Copper	Flexible PVC	Low Density Polyethylene	Broadcast	Presentations	Live Sound	Lighting Companies

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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 Ethercon

Application Notes

- Meets the requirements of Category 5E TIA/EIA-568-C-2, EN 50288-2-2 and ISO/IEC 11801
- Suitable for Gigabit and 100 Mbit to a maximum recommended channel link distance of 53 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	Low Density polyolefin (PE-LD)
Diameter	0.94 ± 0.07 mm
Colour Code	Pair 1: White/Blue-Blue, Pair 2: White/Orange-Orange, Pair 3: White/Green-Green, Pair 4 White/Brown-Brown
Drain wire	7 x 0.16 mm tinned oxygen free copper
Drain wire size	7 x 0.16 mm, 0.14 mm ² , AWG 26/7
Screen	Aluminium/Polyester Foil > 100% coverage
Jacket material	Flexible PVC Jet Black RAL 9005
Overall diameter	6.00 ± 0.30 mm
Bend radius	10 x overall diameter
Operating Temperature	-40 to +70 °C

Electrical Specification

Conductor resistance	< 166 Ohms/km
Insulation Resistance	> 5 GOhm/km
Characteristic Impedance	1-100 MHz 100 ± 10 Ω
Capacitance @ 1 MHz	Conductor to Conductor 57 pF/m
Velocity of Propagation	68 %
Skew	< 0.40 ns/m

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)
1	3.2	62
4	6.5	53
10	9.9	47
16	12.3	44
20	13.8	42
31.25	17.7	40
62.5	25.7	35
100	33.0	32

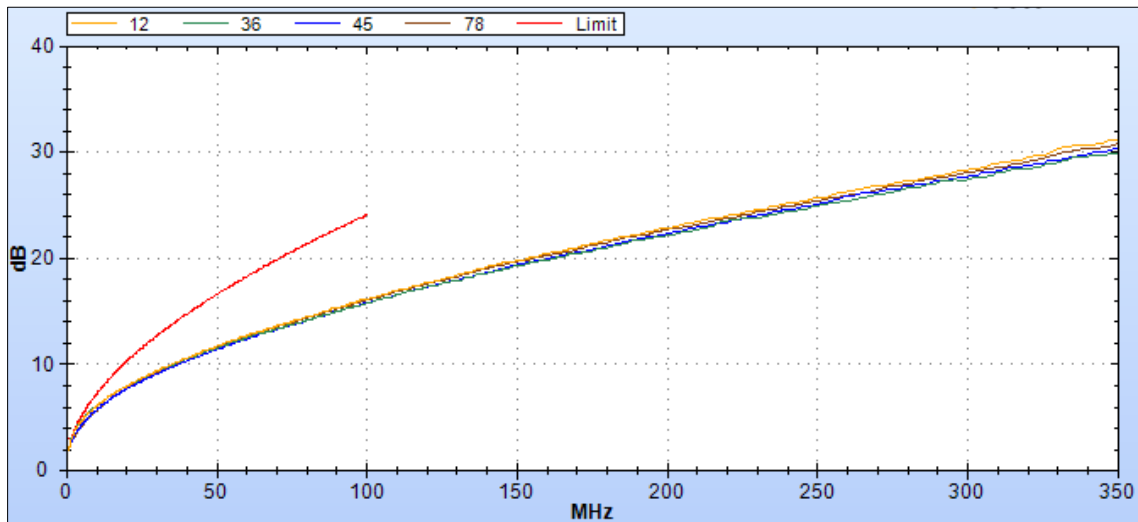
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Fluke DTX1800 Test Results:

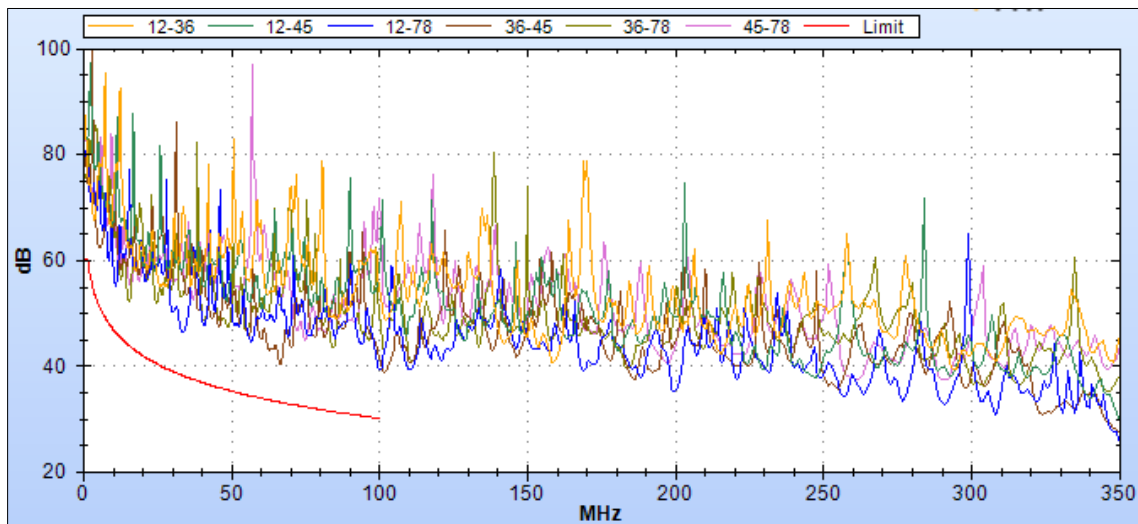
NB All test results are for 53 metres shielded RJ45 termination (F/UTP), Category 5E channel link.

Red line denotes performance limits

ATTENUATION

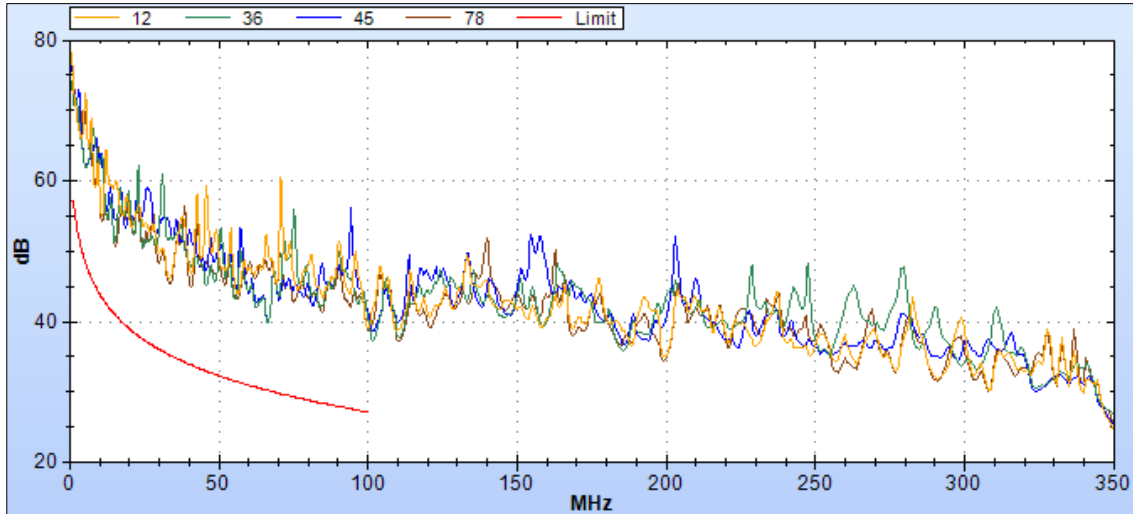


NEXT (Near End Cross Talk)

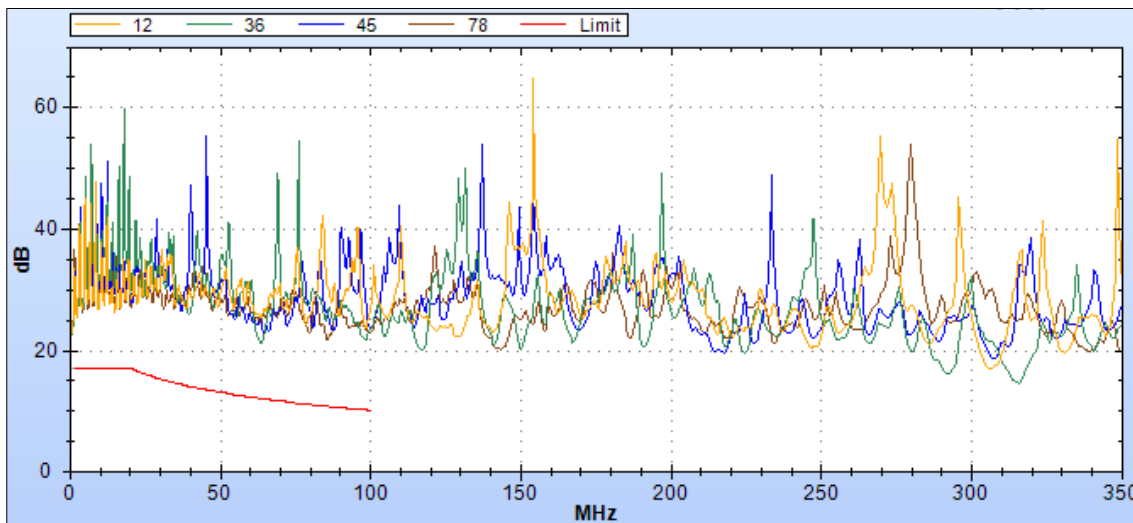


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PS-NEXT (Power Sum Near End Crosstalk)



RETURN LOSS



Part Numbers & Description

Part number	Description	Max. Reel Length
268-450-000	Van Damme TourCat Flexible Cat 5E F/UTP	500 m



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Recommended RJ45 Connectors

Unscreened: Sentinel Connector Systems Unshielded Cat 5E/6 RJ45, part no. 111-08080028L34

Screened: Sentinel Connector Systems Shielded Cat 5E/6 RJ45, part no. 111-S08080028L34

Both connectors use a conductive load bar which improves crosstalk and return loss performance

Connector selection criteria:

Conductor size 26AWG stranded; conductor diameter 0.94 mm; overall diameter 6.00 mm

Standards and Compliance

TIA/EIA-568-C-2

EN 50288-2-2

ISO/IEC 11801

RoHS 2011/65/EU

Restriction of Hazardous Substances

REACH

Registration, Evaluation, Authorisation and Restriction of Chemicals