The TERA-DOR Solution

1200 MHz 100 Ohm, Data-Transmission Cables Per IEC 61156-7

TELDOR

The Best Connection™

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The TERA-DOR Solution

S/STP CABLES - Individual Aluminum Foil Shileded and Overall Braid Shileded

Cable Type	TELDOR P/N	Construction	Outer Jacket		Diameter (mm)	
			Shape	Flame Test	Insulation	Jacket
TERA-1200 4 Pair 22# Solid HFFR	9907554102	4 X (2X22#)	Round	UL 1581 VW-1 IEC 332-1 LSOH	1.56	8.4
TERA-1200 8 Pair 22# Solid HFFR	9907592102	2X(4X2X22#)	FIG-8	UL 1581 VW-1 IEC 332-1 LSOH	1.56	8.4 x 17.0

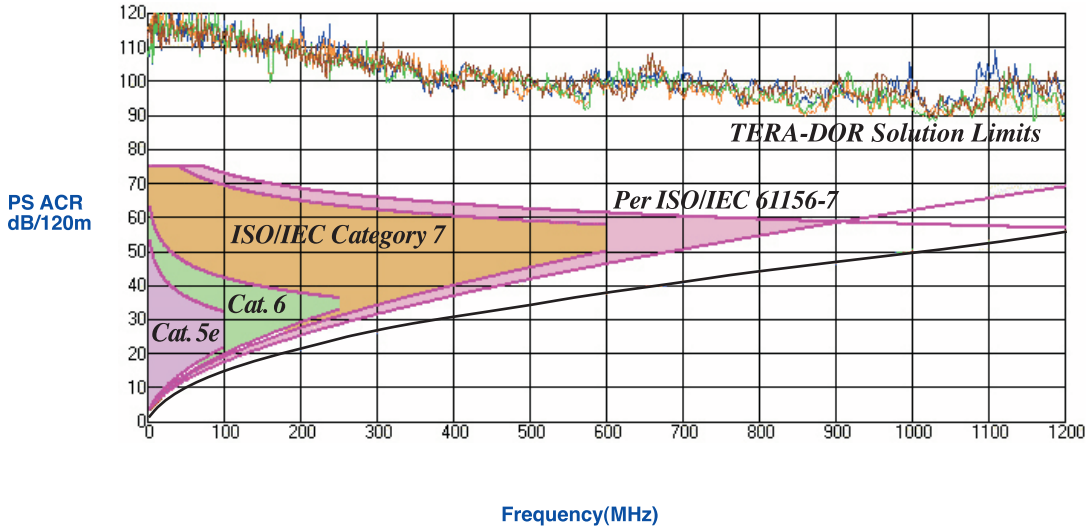
The TERA-DOR Solution Electrical Properties

100 Ohm 1200 MHz 22# S/STP "CATEGORY 8" Horizontal Cables

FREQ MHz	Attenuation dB/100m Max	NEXT dB Min	PS NEXT dB Min	RL dB Min	Coupling Att. dB Min
1.00	1.9	90.0	87.0	27.0	NS
4.00	3.4	90.0	87.0	27.0	NS
10.00	5.4	90.0	87.0	27.0	NS
16.00	6.8	90.0	87.0	27.0	NS
30.00	9.3	90.0	87.0	27.0	90.0
54.10	12.7	90.0	87.0	27.0	90.0
62.50	13.7	89.1	86.1	27.0	90.0
100.00	17.5	86.0	83.0	27.0	90.0
200.00	25.3	81.5	78.5	23.0	84.0
300.00	31.5	78.8	75.8	23.0	80.5
600.00	46.3	74.3	71.3	20.0	74.4
900.00	58.4	71.7	68.7	18.2	70.9
1000.00	62.0	71.0	68.0	17.8	70.0
1200.00	69.0	69.8	66.8	17.0	68.4

The TERA-DOR Solution

DC Resistance 22#	59.0 Ohm/Km max @ 20 C
Resistance Unbalance	2% Max
Char. Impedance	100 Ohm ± 5% @ 1-1200 MHz
Capacitance	43 pF/m nom. @ 1 KHz
Capacitance Unbalance	1.5 pF/m max. @ 1 KHz Wire to ground
Voltage rating	60 V rms
Dielectric strength	700 Volts as/1 minute min.
Velocity of Propagation	79-80% nom.
Screening Attenuation	65 dB min. @ 30-1200 MHz
Transfer Impedance	15 mOhm/m max. @ 1 MHz
	10 mOhm/m max. @ 10 MHz
	30 mOhm/max. @30 MHz
Propagation Delay	4.5 nom. 4.7 max. ns/m @ 1 MHz
	4.4 nom. 4.6 max nS/m @ 10 MHz
	4.4 nom. 4.6 max. nS/m @ 100-1200 MHz
Propagation Delay Skew	8 nom. 15 max. nS/100m @ 10-1200 MHz
Insulation Resistance	152 MOhm Km min. @ 500 Vdc, 20 C



What is The TERA-DOR Solution™?

The TERA-DOR Solution is a line of high-performance data-cables, designed to meet the rigorous transmission properties specified in IEC 61156-7. These cables can support simultaneously any application, ranging from analogue telephony up to 1200 MHz broadband signals.

The cables feature extremely high NEXT and FEXT loss, achieved by individual pair aluminum foil shields, providing a 10 dB ACR up to 1200 MHz. In addition, the cables have stable impedance and attenuation performance without any resonance up to 1200 MHz, making the TERA-DOR Solution cables ideal for multiple high-frequency services, including broadband CATV as required for modern SOHO applications. The TERA-DOR Solution program includes 4 pair and 8 pair TERA-DOR-1200 (22#) S/STP horizontal cables overall shielded with a tin-coated copper braid, jacketed with halogen-free, flame retardant compound, colored white.

What is SOHO?

The term "SOHO" (Small Office/Home Office) is used today for several different applications. The original ANSI/EIA/TIA-570 definitions for Category 3 cabling are long outdated, and the current trend is a requirement for a single multiple-service infrastructure that can handle as many applications as possible, including data, telephone and CATV (analog or digital). The transmission of wide band CATV according to the standards requires a bandwidth of 862 MHz in Europe, 855 MHz in the US and 765 MHz in Japan.

In order to handle such high frequencies in one balanced (twisted-pair) cable, along with lower frequency signals (e.g. data and telephone) two major requirements must be met:

1. The different signals must not interfere with each other.
2. No resonance should be observed up to the highest frequency utilized.

The TERA-DOR Solution horizontal cable was designed to meet these two requirements up to 1200 MHz, providing a true multiple-service cabling system for SOHO and for any other mixed-application use up to 1200 MHz.

TELDOR Wires & Cables Ltd.,

TELDOR Wires & Cables Ltd. Is a leading ISO-9001:2000 certified manufacturer of Hi-Tech, sophisticated cables.

Our product range includes:

Audio frequency & microphone cables, High frequency coaxial, triaxial and twinaxial cables, Instrument & thermocouple extension cables, BUS cables, Power cables, Telecom and switchboard cables for both digital and analog applications, TelSec cables for perimeter intrusion detection and security applications, Digicom cables for ISDN and Digital Telecommunication Systems and Fiber Optic cables.

TELDOR'S LAN & data transmission cable range includes:

The BASIC-Solution: 100 MHz Category 5 & 5E Cables
The GIGA-STAR Solution: 250 MHz Category 6 Cables
The GIGA-DORSolution: 600 MHz Category 7 Cables
The HI-GIGA Solution: 900 MHz Cables
The TERA-DOR Solution: 1200 MHz Cables
The FLEX-Solution: Patch, Jumpers and Work-area Cables.
The OPTILAN-Solution: Fiber Optic Cables for the Local Area Network

Please call us for more information on other products from our wide range of wires & cables.

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TELDOR Wires & Cables Ltd.

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