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## NETWORK & CONTROL CABLE

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### Heavy-duty Tactical Cat5e Cable



Heavy-duty tactical Category 5e cable for portable or remote patching of Ethernet networks or digital audio/video formats that utilize CAT5e type interconnects. The CT504HDX features the same double jacket construction as the original CT504HD for exceptional durability, but with solid conductors for lower attenuation that allows for the full recommended TIA distances for Cat5e network cable. The inner jacket maintains the proper physical spacing between pairs to achieve the ISO/IEC or TIA Cat5e specifications, while the durable TPE outer jacket protects the cable from physical damage or abuse. The CT504HDX is intended for use with Neutrik EtherCon® connectors and is also available from Gepco as preterminated cable assemblies.

#### FEATURES & BENEFITS

- Durable TPE Outer Jacket
- Flexible
- Unique Inner Belt Maintains Electrical Characteristics in Portable Applications
- Meets or Exceeds ISO/IEC & TIA Standards for Cat5e Cable
- Stranded or Solid 24 Gage Conductors
- 100MHz Bandwidth
- Terminates with Neutrik EtherCon® Connectors

#### APPLICATIONS

- Ethernet Network Patching
- For Portable Use or Remote Environments

#### Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Pair Color Code	Inner Jacket (Type, OD)	Outer Jacket	UL Type	Weight
CT504HD	4	.260"	24 AWG (41x40) Stranded TC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, .190"	Black TPE	AWM Style 21144	26 lbs/Mft
<i>Heavy-duty Tactical Cat5e Cable: Extra-flexible</i>									
CT504HDX	4	.245"	24 AWG Solid BC	PE	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown	Clear TPE, .190"	Black TPE	AWM Style 21144	26 lbs/Mft
<i>Heavy-duty Tactical Cat5e Cable: Low-loss</i>									

#### Electrical Specifications

Part #	DCR Max	DCR Unbal. Max	Mutual Capac. Max	Char. Impedance	Prop. Delay (Skew) Max	Vel. of Prop. (Non-plenum, Plenum) Standards																	
						ISO/IEC 11801 Cat 5e Patch Cable																	
CT504HD	28.6 Ω	5%	17 pF/ft	100 Ω	45 ns/100m	69%	17 pF/ft																
							Freq. (MHz)						<b>0.722</b>	<b>1</b>	<b>4</b>	<b>8</b>	<b>10</b>	<b>16</b>	<b>20</b>	<b>25</b>	<b>31.25</b>	<b>62.5</b>	<b>100</b>
							Insertion Loss (dB/100m)						2.7	3.0	6.2	8.7	9.8	12.3	14.0	15.6	17.6	25.5	33.0
							PSNEXT (dB)						64.0	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3
							PSACR (dB/100m)						61.3	59.3	47.2	40.1	37.6	32.0	28.9	25.7	22.4	9.9	-0.7
							PSELFEXT (dB/100m)						63.0	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8
RL (dB)						----	20.0	23.0	24.5	25.0	25.0	25.0	24.2	23.3	20.7	19.0							

Meets or Exceeds TIA/EIA-568-B.2

CT504HDX	28.6 Ω	5%	17 pF/ft	100 Ω	45 ns/100m				69%				Cat5e, ISO/IEC 11801			
			<b>Freq. (MHz)</b>	<b>0.722</b>	<b>1</b>	<b>4</b>	<b>8</b>	<b>10</b>	<b>16</b>	<b>20</b>	<b>25</b>	<b>31.25</b>	<b>62.5</b>	<b>100</b>		
			<b>Insertion Loss (dB/100m)</b>	1.8	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0		
			<b>PSNEXT (dB)</b>	70.0	68.3	59.3	54.8	53.3	50.3	48.8	47.3	45.9	41.4	38.3		
			<b>PSACR (dB/100m)</b>	68.2	66.3	55.2	49.0	46.8	42.1	39.5	36.9	34.2	24.4	16.3		
			<b>PSELFEXT (dB/100m)</b>	63.0	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8		
<b>RL (dB)</b>	----	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1					

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