

NETWORK
Category 5e Network



Gepco® Brand CT504/STD Category 5e Cables carry data, telephony and video signals on bandwidth up to 100 MHz. These cables have been engineered with both value and performance in mind. The category 5e design maintains a stable and consistent signal while performing out to one gigabit. Our standard compliant designs meet all of the required standards. Available in both plenum and non-plenum versions, CT504/STD features the TRU-Mark® Marking System, which sequentially marks every two feet of cable in descending order.

Features & Benefits

- Meets ANSI/TIA Standards for Category 5e
- TRU-Mark® Print Legend with Sequential Footage
- Third Party Verified for Guaranteed Performance

Applications

- Broadband and Baseband Analog Video
- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s

Mechanical Specifications														
Part #	# of Pairs	Nominal OD	Conductors	Insulation	Pair Color Code	Jacket	Jacket Color Code	Minimum Bend Radius	Maximum Pulling Force	UL Type	Weight			
CT504/STD	4	0.200" (5.08 mm)	24 AWG Solid BC	Polyolefin	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown	PVC	Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple	1.0"	25 lbs	CMR	19 lbs/Mft (28 kg/km)			
Category 5e Four-Pair														
CT504/STDP	4	0.180" (4.57 mm)	24 AWG Solid BC	Fluoropolymer/ Dual-Layer Polyolefin	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown	Plenum PVC	Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple	1.0"	25 lbs	CMP	21 lbs/Mft (31 kg/km)			
Category 5e Four-Pair: Plenum														
Electrical Specifications														
Part #	DCR Max @ 20°C	DCR Unbal. Max	Char. Imped.	Mutual Capacitance	Prop. Delay (Skew) Max	Vel. of Prop. (Plenum, Non-Plenum)	Temp. Rating (Installation, Operating)					Standards		
CT504/STD Series	8.9 Ω/100 m (328 ft)	3.0%	100 Ω (+/-15)	17.0 pF/ft	45 ns/100 m	70%, 72%	0°C to +60°C, -20°C to +75°C					Meets or Exceeds ANSI/TIA 568-C.2 Cat 5e, ISO/IEC 11801 Ed. 2.0		
ANSI/TIA 568-C.2 Performance														
Freq. (MHz)														
	1	4	10	16	20	25	31.25	62.5	100	155	200	250	300	350
Insertion Loss (dB/100 m) (max)	2.0	4.1	6.5	8.2	9.3	10.4	11.7	17.0	22.0	28.1	32.4	36.9	41.0	44.9
PSACR* (dB/100 m) (min)	60.3	49.2	40.8	36.0	33.5	30.9	28.2	18.4	10.3	1.4	—	—	—	—
ACR* (dB/100 m) (min)	63.3	52.2	43.8	39.0	36.5	33.9	31.2	21.4	13.3	4.4	—	—	—	—
PSNEXT (dB/100 m) (min)	62.3	53.3	47.3	44.2	42.8	41.3	39.9	35.4	32.3	29.4	27.8	26.3	25.1	24.1
NEXT (dB/100 m) (min)	65.3	56.3	50.3	47.2	45.8	44.3	42.9	38.4	35.3	32.4	30.8	29.3	28.1	27.1
PSACRF (dB/100 m) (min)	60.8	48.8	40.8	36.7	34.8	32.8	30.9	24.9	20.8	17.0	14.8	12.8	11.3	9.9
ACRF (dB/100 m) (min)	63.8	51.8	43.8	39.7	37.8	35.8	33.9	27.9	23.8	20.0	17.8	15.8	14.3	12.9
Return Loss (dB) (min)	20.0	23.0	25.0	25.0	25.0	24.3	23.6	21.5	20.1	—	—	—	—	—

Note: Results beyond 200 MHz for reference only.
*PSACR & ACR not specified in ANSI/TIA 568-C.2

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NETWORK

Enhanced Category 5e Network



Gepco® Brand CT504/350 Enhanced Category 5e Cables feature extended bandwidths and precision tolerances to meet or exceed the latest ANSI/TIA and ISO standards. Designed to deliver reliability in leading-edge networking, data and video applications, the CT504/350 series offers low insertion loss, crosstalk and return loss. Every reel is ETL listed and UL verified to ensure consistent performance, while the TRU-Mark® Marking System sequentially marks every two feet of cable in descending order. Available in plenum and riser constructions, Gepco Enhanced Category 5e cables may be installed in a variety of applications and environments.

Features & Benefits

- For Applications that Require Optimal Cat 5e Performance with Flexibility for the Future
- Performance Guaranteed to 350 MHz
- TRU-Mark® Print Legend with Sequential Footage
- Characterized up to or Beyond ANSI/TIA Standards
- Third Party Verified for Guaranteed Performance
- Rip Cord Under Jacket

Applications

- Broadband and Baseband Analog Video
- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring

Mechanical Specifications

Part #	# of Pairs	Nominal OD	Conductors	Insulation	Pair Color Code	Jacket	Jacket Color Code	Minimum Bend Radius	Maximum Pulling Force	UL Type	Weight
CT504/350	4	0.200" (5.08 mm)	24 AWG Solid BC	Polyolefin	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown	PVC	Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple	1.0"	25 lbs	CMR	21 lbs/Mft (31 kg/km)
<i>Enhanced Category 5e Four-Pair 350 MHz</i>											
CT504/350P	4	0.180" (4.57 mm)	24 AWG Solid BC	Fluoropolymer	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown	Plenum PVC	Black, White, Red, Orange, Yellow, Green, Blue, Gray, Pink, Purple	1.0"	25 lbs	CMP	19 lbs/Mft (28 kg/km)
<i>Enhanced Category 5e Four-Pair 350 MHz: Plenum</i>											

Electrical Specifications

Part #	DCR Max @ 20°C	DCR Unbal. Max	Char. Imped.	Prop. Delay (Skew) Max	Vel. of Prop. (Non-Plenum, Plenum)	Temp. Rating (Installation, Operating)	Standards									
		3.0%	100 Ω (+/-15)	45 ns/100 m	70%, 72%	0°C to +60°C, -20°C to +75°C	Meets or Exceeds ANSI/TIA 568-C.2 Cat 5e, ISO/IEC 11801 Ed. 2.0									
CT504/350 Series	8.9 Ω/100 m (328 ft)	Freq. (MHz)	1	4	10	16	20	25	31.25	62.5	100	155	200	250	300	350
		Insertion Loss (dB/100 m) (max)	2.0	4.0	6.4	8.1	9.2	10.3	11.6	16.8	21.7	27.7	32.0	36.4	40.5	44.3
		PSACR (dB/100 m) (min)	63.3	52.3	43.9	39.1	36.6	34.0	31.3	21.6	13.6	4.7	—	—	—	—
		ACR (dB/100 m) (min)	64.3	53.3	44.9	40.1	37.6	35.0	32.3	22.6	14.6	5.7	—	—	—	—
		PSNEXT (dB/100 m) (min)	65.3	56.3	50.3	47.2	45.8	44.3	42.9	38.4	35.3	32.4	30.8	29.3	28.1	27.1
		NEXT (dB/100 m) (min)	66.3	57.3	51.3	48.2	46.8	45.3	43.9	39.4	36.3	33.4	31.8	30.3	29.1	28.1
		PSACRF (dB/100 m) (min)	61.0	49.0	41.0	36.9	35.0	33.0	31.1	25.1	21.0	17.2	15.0	13.0	11.5	10.1
		ACRF (dB/100 m) (min)	64.0	52.0	44.0	39.9	38.0	36.0	34.1	28.1	24.0	20.2	18.0	16.0	14.5	13.1
		Return Loss (dB) (min)	20.0	23.0	25.0	25.0	25.0	24.3	23.6	21.5	20.1	—	—	—	—	—

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