

FEATURES & BENEFITS

- Low Attenuation & Return Loss
- Precision 75 Ω Impedance
- 4.5 GHz Bandwidth for HDTV
- High Velocity of Propagation
- Gas-Injected Foam Dielectric
- 100% Sweep Tested
- Full-Copper Braid & Foil Shield

APPLICATIONS

- High Definition Serial Digital Video
- Standard Definition Serial Digital Video
- High Resolution Analog Video
- Digital Audio (AES3id or SPDIF)

The Gepco® Brand high-definition video coax series has been engineered to feature a 4.5 GHz bandwidth (for HDTV transmission), a gas-injected foam dielectric, lower attenuation, more RG types, excellent crush resistance, easy termination and a flexible jacket.

The gas-injected dielectric and precision process control are critical factors in achieving superior electrical performance including faster velocity of propagation, tight impedance tolerance, low attenuation and low structural return loss across the entire 4.5 GHz bandwidth. Conductive elements consist of a stranded or precision-drawn solid copper center conductor and a braid with 100% foil shield for complete broadband shielding. The series contains a wide range of sizes to accommodate short-distance rack wiring or extended-distance point-to-point interconnect.



TactiCel™
Strong Cell Technology

Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	UL Type	Approx. Weight
VHD1300	1	0.400"	13 AWG Solid BC	TactiCel™ Gas-Injected Foam PE, 0.287"	92% TC Braid, 100% Foil	PVC	CMR	92 lbs/Mft
<i>Extended-Distance 13 AWG HD Coax</i>								
VHD1100	1	0.405"	14 AWG Solid BC	TactiCel™ Gas-Injected Foam PE, 0.285"	95% TC Braid, 100% Foil	PVC	CMR	76 lbs/Mft
<i>Extended-Distance RG11 HD Coax</i>								
VHD1100F	1	0.400"	14 AWG (19x27)Stranded BC	TactiCel™ Gas-Injected Foam PE, 0.287"	92% TC Braid, 100% Foil	TPE	—	75 lbs/Mft
<i>Extended-Distance RG11 HD Coax: Flexible</i>								
VHD1100TK	1	0.346"	14 AWG Solid BC	TactiCel™ Gas-Injected Foam FEP, 0.285"	95% TC Braid, 100% Foil	PVDF	CMP	78 lbs/Mft
<i>Extended-Distance RG11 HD Coax: Plenum</i>								
VHD7000	1	0.320"	16 AWG Solid BC	TactiCel™ Gas-Injected Foam PE, 0.223"	95% TC Braid, 100% Foil	PVC	CMR	50 lbs/Mft
<i>Extended-Distance RG7 HD Coax</i>								
VSD2001	1	0.272"	18 AWG Solid BC	TactiCel™ Gas-Injected Foam PE, 0.180"	95% TC Braid, 100% Foil	PVC	CMR	42 lbs/Mft
<i>Low-Loss RG6 HD Coax</i>								
VSD2001TS	1	0.237"	18 AWG Solid BC	TactiCel™ Gas-Injected Foam FEP, 0.170"	95% TC Braid, 100% Foil	Plenum PVC	CMP	40 lbs/Mft
<i>Low-Loss RG6 HD Coax: Plenum</i>								
VPM2000	1	0.242"	20 AWG Solid BC	TactiCel™ Gas-Injected Foam PE, 0.146"	95% TC Braid, 100% Foil	PVC	CMR	35 lbs/Mft
<i>Standard RG59 HD Coax</i>								
VPM2000TS	1	0.200"	20 AWG Solid BC	TactiCel™ Gas-Injected Foam FEP, 0.135"	95% TC Braid, 100% Foil	Plenum PVC	CMP	32 lbs/Mft
<i>Standard RG59 HD Coax: Plenum</i>								
VDM230	1	0.164"	23 AWG Solid BC	TactiCel™ Gas-Injected Foam PE, 0.100"	95% TC Braid, 100% Foil	PVC	CMR	18 lbs/Mft
<i>Miniature HD/SDI Coax: 23 AWG Solid</i>								
VDM230LT	1	0.164"	23 AWG Solid BC	TactiCel™ Gas-Injected Foam PE, 0.100"	100% Bonded Foil, Liquid Crystal Polymer Braid	PVC	CMR	11 lbs/Mft
<i>Ultra-Lightweight Miniature HD/SDI Coax: 23 AWG Solid</i>								
VDM230TS	1	0.164"	23 AWG Solid BC	TactiCel™ Gas-Injected Foam FEP, 0.099"	95% TC Braid, 100% Foil	Plenum PVC	CMP	18 lbs/Mft
<i>Miniature HD/SDI Coax: 23 AWG Solid Plenum</i>								

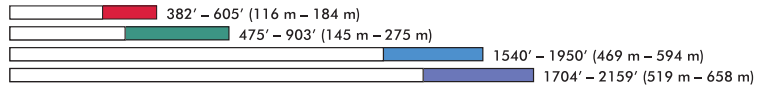
Electrical Specifications

Part #	Impedance	Return Loss (100 kHz-1 GHz), (1 GHz-4.5 GHz)	Capacitance	Cond. DCR per Mft	Shield DCR per Mft	Vel. of Prop.	Nominal Attenuation (dB per 100 ft)												
							1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
VHD1300	75 Ω (+/-2)	>23dB, >21dB	15.0 pF/ft	2.0 Ω	1.5 Ω	89%	0.13	0.27	0.41	0.95	1.31	1.79	2.10	3.09	3.61	4.43	5.43	6.29	8.22
VHD1100	75 Ω (+/-2)	>23dB, >21dB	16.2 pF/ft	2.5 Ω	1.5 Ω	84%	0.14	0.28	0.43	1.02	1.40	1.92	2.25	3.30	3.86	4.73	5.80	6.72	8.75
VHD1100F	75 Ω (+/-2)	>20dB, >15dB	16.2 pF/ft	2.7 Ω	1.5 Ω	85%	0.07	0.28	0.46	1.12	1.54	2.11	2.50	3.70	4.32	5.34	6.61	7.73	10.15
VHD1100TK	75 Ω (+/-2)	>23dB, >21dB	16.0 pF/ft	2.5 Ω	1.5 Ω	84%	0.14	0.25	0.40	1.04	1.45	2.20	2.68	4.20	5.23	6.80	9.07	10.14	13.30
VHD7000	75 Ω (+/-2)	>23dB, >21dB	16.2 pF/ft	4.0 Ω	1.9 Ω	84%	0.16	0.34	0.54	1.28	1.70	2.40	2.80	4.05	4.80	5.89	7.25	8.40	10.90
VSD2001	75 Ω (+/-2)	>23dB, >21dB	16.3 pF/ft	6.4 Ω	2.8 Ω	83%	0.22	0.43	0.70	1.60	2.10	2.96	3.40	4.95	5.87	7.30	9.13	10.65	13.28
VSD2001TS	75 Ω (+/-2)	>23dB, >21dB	16.0 pF/ft	6.4 Ω	2.8 Ω	84%	0.22	0.45	0.73	1.72	2.35	3.36	3.98	6.08	7.23	9.13	11.52	13.64	16.98
VPM2000	75 Ω (+/-2)	>23dB, >21dB	16.3 pF/ft	10.2 Ω	3.5 Ω	83%	0.28	0.53	0.86	2.05	2.71	3.80	4.38	6.40	7.57	9.29	11.57	13.36	16.39
VPM2000TS	75 Ω (+/-2)	>23dB, >21dB	16.0 pF/ft	10.2 Ω	3.5 Ω	84%	0.28	0.55	0.88	2.10	2.85	4.10	4.85	7.24	9.00	11.42	14.75	17.50	27.50
VDM230LT	75 Ω (+/-2)	>23dB, >21dB	16.5 pF/ft	20.3 Ω	9.7 Ω	82%	0.38	0.78	1.19	3.01	3.80	5.40	6.18	9.30	10.47	12.97	16.00	18.48	22.80
VDM230, VDM230TS	75 Ω (+/-2)	>23dB, >21dB	16.5 pF/ft	20.3 Ω	2.7 Ω	82%	0.38	0.78	1.19	3.01	3.80	5.40	6.18	9.30	10.47	12.97	16.00	18.48	22.80

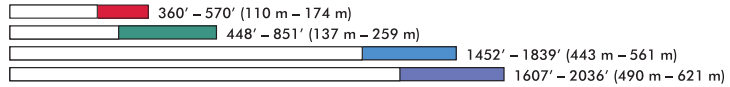
Maximum values represent the approximate range at which the bit error rate “cliff region” will occur.

In every system the quality of the output pulse, the amount of loss that can be compensated for by the receiver, the number of passive connectors and patch points and the exact amount of cable loss will vary. Because of this, the exact maximum cable length possible will vary. The graphs to the right do not represent the exact cable length possible; they only serve as a guide in selecting the appropriate cable type. When installing a cable in a system and it is approaching its maximum range, it is highly recommended that individual system testing and research be done.

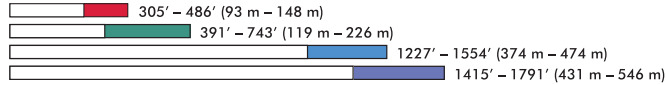
VHD1300



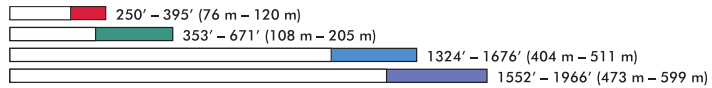
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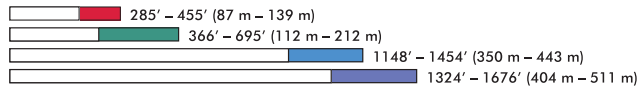
VHD1100F



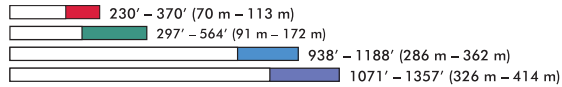
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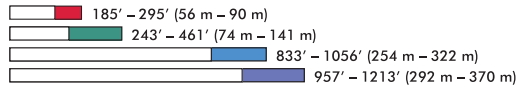
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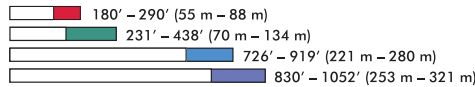
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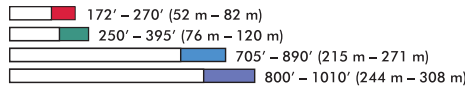
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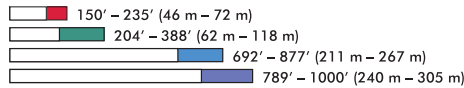
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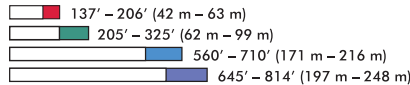
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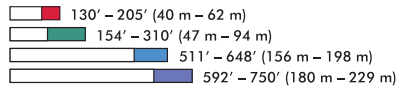
VPM2000TS



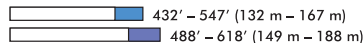
VHD2000M



VDM230



VDM250



VDM260

