

High-Definition SDI Coax



TactiCel™
Strong Cell Technology

The Gepco® Brand high-definition video coax series has been engineered to feature a 4.5 GHz bandwidth (for HDTV transmission), a TactiCel™ gas-injected foam dielectric, lower attenuation, more RG types, excellent crush resistance, easy termination and a flexible jacket. The TactiCel 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 either a 92% or 95% 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.

Features & Benefits

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

Applications

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

Mechanical Specifications

Part #	# of Cond.	Nominal OD	Conductor	Insulation (Type, OD)	Shield	Jacket Type	Jacket Colors	UL Type	Approx. Weight
VHD1300	1	0.400" (10.2 mm)	13 AWG Solid BC	Gas-Injected Foam PE, 0.287" (7.29 mm)	92% TC Braid, 100% Foil	PVC	Black, Purple	CMR	92 lbs/Mft (137 kg/km)
<i>Extended-Distance 13 AWG HD Coax</i>									
VHD1100	1	0.405" (10.3 mm)	14 AWG Solid BC	Gas-Injected Foam PE, 0.285" (7.24 mm)	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	76 lbs/Mft (113 kg/km)
<i>Extended-Distance RG 11 HD Coax</i>									
VHD1100F	1	0.400" (10.2 mm)	14 AWG (19x27) Stranded BC	Gas-Injected Foam PE, 0.287" (7.29 mm)	92% TC Braid, 100% Foil	TPE	Purple	—	75 lbs/Mft (112 kg/km)
<i>Extended-Distance RG 11 HD Coax: Flexible</i>									
VHD1100TK	1	0.346" (8.79 mm)	14 AWG Solid BC	Gas-Injected Foam FEP, 0.285" (7.24 mm)	95% TC Braid, 100% Foil	PVDF	White, Others by Special Order	CMP	78 lbs/Mft (116 kg/km)
<i>Extended-Distance RG 11 HD Coax: Plenum</i>									
VHD7000	1	0.320" (8.13 mm)	16 AWG Solid BC	Gas-Injected Foam PE, 0.223" (5.66 mm)	95% TC Braid, 100% Foil	PVC	Black, Others by Special Order	CMR	50 lbs/Mft (75 kg/km)
<i>Extended-Distance RG 7 HD Coax</i>									
VSD2001	1	0.272" (6.91 mm)	18 AWG Solid BC	Gas-Injected Foam PE, 0.180" (4.57 mm)	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	42 lbs/Mft (63 kg/km)
<i>Low-Loss RG 6 HD Coax</i>									
VSD2001TS	1	0.237" (6.02 mm)	18 AWG Solid BC	Gas-Injected Foam FEP, 0.170" (4.32 mm)	95% TC Braid, 100% Foil	Plenum PVC	White, Others by Special Order	CMP	40 lbs/Mft (60 kg/km)
<i>Low-Loss RG 6 HD Coax: Plenum</i>									
VPM2000	1	0.242" (6.15 mm)	20 AWG Solid BC	Gas-Injected Foam PE, 0.146" (3.71 mm)	95% TC Braid, 100% Foil	PVC	Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White	CMR	35 lbs/Mft (52 kg/km)
<i>Standard RG 59 HD Coax</i>									
VPM2000TS	1	0.200" (5.08 mm)	20 AWG Solid BC	Gas-Injected Foam FEP, 0.135" (3.43 mm)	95% TC Braid, 100% Foil	Plenum PVC	White, Others by Special Order	CMP	32 lbs/Mft (48 kg/km)
<i>Standard RG 59 HD Coax: Plenum</i>									

Electrical Specifications

Part #	Impedance	Return Loss (100 kHz-1 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)	>23 dB, >21 dB	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)	>23 dB, >21 dB	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)	>20 dB, >15 dB	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)	>23 dB, >21 dB	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)	>23 dB, >21 dB	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)	>23 dB, >21 dB	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)	>23 dB, >21 dB	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)	>23 dB, >21 dB	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)	>23 dB, >21 dB	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		



GVC - Cable Type - Color - Length - Connector Format

25 = VHD7000*
11 = VSD2001
6 = VPM2000

*Choice of Black Only for VHD7000.

0 = Black **5** = Green
1 = Brown **6** = Blue
2 = Red **7** = Violet
3 = Orange **8** = Gray
4 = Yellow **9** = White

In Feet

KB = Kings® 2065 Series 3 GHz True 75 Ω BNC
AB = ADC® 3 GHz True 75 Ω BNC
CF = Canare® 75 Ω F-Type Connector
CR = Canare® 200 MHz Crimp RCA

*No suffix will designate Gepco® Brand BNCs.
**Boots standard with above connector options.

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