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4th
Edition

GEM Electronics - 920-A River Street - Windsor, CT 06095 - Toll Free Telephone: 888-436-4195 - Fax: 860-683-0396
e-mail: gembpitcher@aol.com - Website: www.gemelec.com

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General Series Specifications

BNC / TNC / RCA Series

FEATURES
- Field installable.
- Completely reusable (Twist-On type).
- No solder or crimping tools required.
- One-piece connector construction - no loose contacts or other parts to handle.
- Utilizes captive, self-energizing center contact.
- Gold plated center contact.
- Bright nickel finish solid brass or zinc body.

ELECTRICAL CHARACTERISTICS

Impedance:	50 Ohms nominal, 75 Ohms as noted
Frequency Range:	BNC: 0-4 GHz, TNC: 0-11 GHz, RCA: 0-1 GHz
V.S.W.R.:	1•3:1 maximum
Voltage Rating:	500 VRMS @ sea level
Contact Resistance:	Outer Contact 0.2 Milliohms, Center Contact 1.5 Milliohms
Insulating Resistance:	5000 Megohms minimum
Dielectric Withstanding Voltage:	1500 VRMS @ sea level

MATERIALS
Brass QQ-B-626, Alloy 360, ½ Hard, QQ-B-613, Alloy CA260, ½ Hard, Beryllium Copper Alloy #25. Zamak QQ-2-363 Comp A MIL-P-22748, NORYL SE100 UL Approved

N Series

FEATURES
- Compatible connector interface for all 10mm trunk Ethernet and local area network systems.
- Cable attachment by dual crimp system.
- Cable retention: 60-80 lbs, minimum.

ELECTRICAL CHARACTERISTICS

Impedance:	50 Ohms nominal
Frequency Range:	0-11 GHz
Voltage Rating:	1500 VRMS @ sea level
Insulation Resistance:	5000 Megohms
Dielectric Withstanding Voltage:	2500 VRMS @ sea level

MATERIALS

Contact:	Phos-bronze with gold plating
Body:	Brass CDA 360 with bright nickel plating
Insulator:	NORYL SE100 UL Approved
Ferrule:	Brass with bright nickel plating

F Series

FEATURES
- Compatible connector interface for CATV, MATV and Satellite TV installations.
- Field installable.
- Completely reusable.
- Crimping tools required.
- Bright nickel finish solid brass body.

ELECTRICAL CHARACTERISTICS

Impedance:	75 Ohms nominal
Frequency Range:	0-1 GHz
Voltage Rating:	250 VRMS

MATERIALS

Body and fittings:	Brass with bright nickel finish

UHF & MINI UHF Series

FEATURES
- Field installable.
- Crimping tools required.
- One piece connector construction - no loose contact or other parts to handle when using twist-on style.

ELECTRICAL CHARACTERISTICS

Impedance:	Non-constant
Frequency Range:	0-300 MHz
Voltage Rating:	500 VRMS @ sea level
Insulation Resistance:	5000 Megohms minimum
Dielectric Withstanding Voltage:	1500 VRMS @ sea level

MATERIALS

Body:	Brass QQ-B-626, Alloy 360, ½ Hard QQ-B-613, Alloy 260, ½ Hard
Insulator:	MIL-P-22748, NORYL SE100 UL Approved

PLUG (302)



JACK (351)



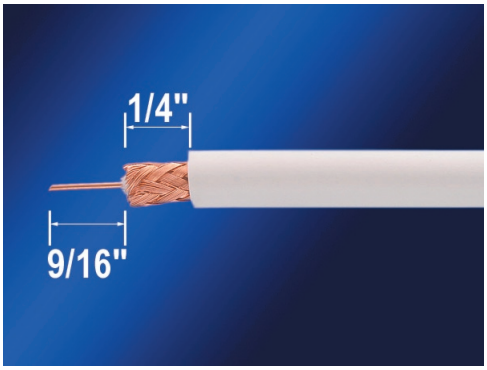
BULKHEAD JACK (355)



Twist-On Connectors

Plug	Jack	Bulkhead Jack	RG Cable Type	Wire Gauge	Jacket O.D.	Strip Tool
302-1	351-1	355-1	RG58 PVC, RG59TFE	20-22 AWG	.185 - .205	GST-1
302-3	351-3	355-3	BELDEN 8281	20 AWG	.272 - .307	GST-3
302-4	351-4	355-4	RG59 PVC, RG6 TFE	18-22 AWG	.220 - .250	GST-1
302-5	351-5	355-5	RG6 PVC	18 AWG	.270 - .280	GST-1
302-11	351-11	355-11	RG58 TFE	20 AWG	.165 - .178	GST-2

Strip Dimensions



For complete cable assembly instructions turn to page 44 or visit our Website at: www.gemelec.com

Solid Center Conductor Only

Coaxial Wire Strippers/Tools Recommended

GST-1



GST-2



GST-3



PLUG (301)



JACK (350)



BULKHEAD JACK (359)



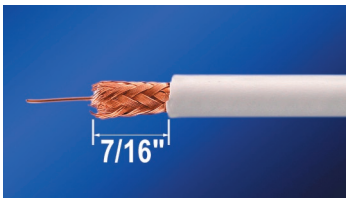
UNIVERSAL CONNECTOR (301-00)



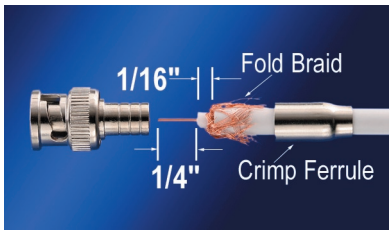
Crimp-On Connectors

Plug	Jack	Bulkhead Jack	RG Cable Type	Wire Gauge	Jacket O.D.	Strip Tool	Crimp Tool
301-1	350-1	359-1	RG58 PVC, RG59TFE	20-22 AWG	.185 - .205	GST-1	GET-301-UT
301-3	350-3	359-3	BELDEN 8281	20 AWG	.272 - .307	GST-3	GET-301-3
301-4	350-4	359-4	RG59 PVC, RG6 TFE	18-22 AWG	.220 - .250	GST-1	GET-301-UT
301-5	350-5	359-5	RG6 PVC	18 AWG	.270 - .280	GST-1	GET-301-UT
301-11	350-11	359-11	RG58 TFE	20 AWG	.165 - .178	GST-2	GET-301-1
301-00	350-00	359-00	RG59 PVC & TFE, RG6 PVC & TFE, RG58 PVC	18-22 AWG	.185 - .280	GST-1 GST-2	GET-301-UT

Strip Dimensions



Solid Center Conductor Only



For complete cable assembly instructions turn to page 44 or visit our Website at: www.gemelec.com

Coaxial Wire Strippers/Tools Recommended

Universal Crimp Tool
GET-301-UT



GST-1



GST-2



GST-3



BNC 50 Ohm Crimp-Crimp

PLUG (305)



JACK (353)



BULKHEAD JACK (358)



PLUG (305-18)



PLUG (305-18-4)



PLUG (305-2



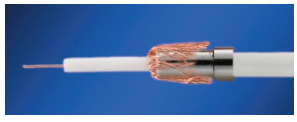
PLUG (305-19)

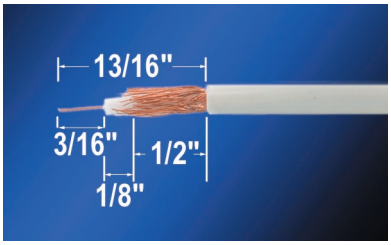


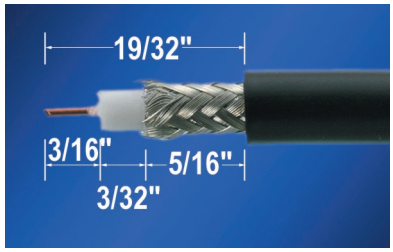
Crimp-Crimp Connectors

Plug	Jack	Bulkhead Jack	RG Cable Type	Wire Gauge	Jacket O.D.	Strip Tool	Crimp Tool
305-1	353-1	358-1	RG58, 141	20 AWG	.195 - .210	GST-4	GET-305-58596
305-10	353-10	358-10	RG59 TFE	22 AWG	.185 - .205	GST-4	GET-305-58596
305-11	353-11	358-11	RG58 TFE, 303	20 AWG	.165 - .178	GST-4	GET-305-58596
305-12	353-12	358-12	RG122	27 AWG	.160 Nom.	GST-174	GET-305-12
305-13	353-13	358-13	RG142, 223, 400, 55	37 AWG	.195 Nom.	GST-4	GET-305-58596
305-14	353-14	358-14	RG180, 195, 34M	27 AWG	.141 Nom.	GST-174	GET-305-12
305-16	353-16	358-16	RG450 Proflex	16 AWG	.220 - .250	GST-4	GET-305-58596
305-17	353-17	358-17	RG8X	14 AWG	.220 - .250	GST-4	GET-305-58596
305-18	353-18	358-18	RG8218	27 AWG	.150 Nom.	GST-174	GET-305-12
305-18-4	-	-	RG8218	27 AWG	.150 Nom.	GST-174	GET-305-12
305-19	353-19	358-19	RG174, 188, 316	24 AWG	.109 - .117	GST-174	GET-305-12
305-2	353-2	358-2	RG59, 62, 140, 210	20-22 AWG	.220 - .250	GST-4	GET-305-58596
305-20	353-20	358-20	RG179, 187	27 AWG	.109 - .117	GST-174	GET-305-12
305-21	353-21	358-21	RG58, 59 RG59 TFE	20-22 AWG	.185 - .205 .220 - .250	GST-4	GET-305-58596
305-22	353-22	358-22	RG58 RG59	20-22 AWG	.185 - .205 .220 - .250	GST-4	GET-305-58596
305-23	353-23	358-23	RG58 TFE, 303 RG59 TFE & 58	20-22 AWG	.165 - .178 .185 - .205	GST-4	GET-305-58596
305-25	353-25	358-25	RG58 Thinnet	18 AWG	.150 Nom.	GST-174	GET-305-12
305-26	353-26	358-26	RG11	11 AWG	.400 - .410	GST-6	GET-400-8
305-3	353-3	358-3	Belden 8281	20 AWG	.272 - .307	GST-5	GET-305-3
305-4	353-4	358-4	RG59 MATV RG6 TFE	18 AWG	.220 - .250	GST-4 GST-5	GET-305-58596
305-5	353-5	358-5	RG6	18 AWG	.270 - .280	GST-5	GET-305-58596

Mini-Cable: RG 174, RG 179







Strip Dimensions

For complete cable assembly instructions turn to page 45 or visit our Website at: www.gemelec.com

Coaxial Wire Strippers/Tools Recommended

GST-4



GST-5



GST-6



GST-174



GET-305-12



GET-305-3



GET-400-8



GET-305-58596



BNC Bulkhead Receptacles



325-12



325-100



325-1275



325-10075

Model Number	A*	Impedance
325-12	1 3/16"	50 Ohm
325-100	1 3/16"	50 Ohm
325-1275	1 3/16"	75 Ohm
325-10075	1 3/16"	75 Ohm

Add "G" to model number when a grounding lug is required.
A* = Total overall length.

BNC "T" Adapters



301-32750
Impedance: 50 Ohm



327-3
50 Ohm



327-75-3
75 Ohm

BNC Angle & Goal Post Adapters

Angle



301-RA-350
Impedance: 50 Ohm

Goal Post



301-327750
50 Ohm

BNC Jack to Jack Bulkhead Mount Adapters



329-0
Impedance: 50 Ohm



329-075
75 Ohm



329-OW
50 Ohm w/ washer



329-0ISD
50 Ohm Isolated From Ground

BNC Jack to Jack Bulkhead Mount Adapters



327-11
Impedance: 50 Ohm



327-1175
75 Ohm



301-301
50 Ohm

BNC Resistor Terminations



301-T50



301-T75



301-T93

Model Number	Resistor
301-T50	50 Ω 1%
301-T75	75 Ω 1%
301-T93	93 Ω 1%

PLUG (311)



JACK (361)



BULKHEAD JACK (365)



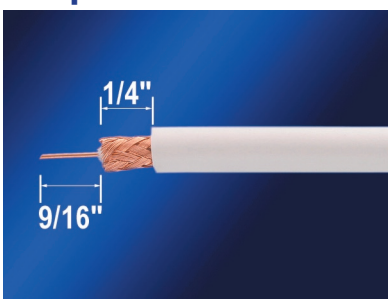
Twist-On Connectors

Plug	Jack	Bulkhead Jack	RG Cable Type	Wire Gauge	Jacket O.D.	Strip Tool
311-1	361-1	365-1	RG58 PVC, RG59TFE	20-22 AWG	.185 - .205	GST-1
311-3	361-3	365-3	BELDEN 8281	20 AWG	.272 - .307	GST-3
311-4	361-4	365-4	RG59 PVC, RG6 TFE	18-22 AWG	.220 - .250	GST-1
311-5	361-5	365-5	RG6 PVC	18 AWG	.270 - .280	GST-1
311-11	361-11	365-11	RG58 TFE	20 AWG	.165 - .178	GST-2

For complete cable assembly instructions turn to page 44 or visit our Website at: www.gemelec.com

Solid Center Conductor Only

Strip Dimensions

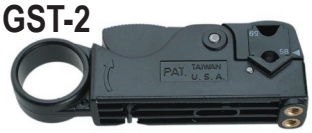


Coaxial Wire Strippers/Tools Recommended

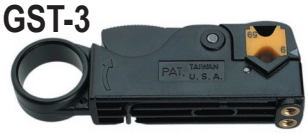
GST-1



GST-2



GST-3



PLUG (310)



JACK (360)



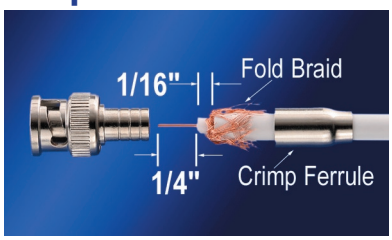
BULKHEAD JACK (369)

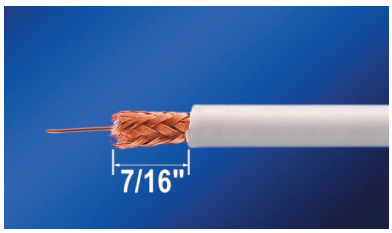


Crimp-On Connectors

Plug	Jack	Bulkhead Jack	RG Cable Type	Wire Gauge	Jacket O.D.	Strip Tool	Crimp Tool
310-1	360-1	369-1	RG58 PVC, RG59TFE	20-22 AWG	.185 - .205	GST-1	GET-301-UT
310-3	360-3	369-3	BELDEN 8281	20 AWG	.272 - .307	GST-3	GET-301-3
310-4	360-4	369-4	RG59 PVC, RG6 TFE	18-22 AWG	.220 - .250	GST-1	GET-301-UT
310-5	360-5	369-5	RG6 PVC	18 AWG	.270 - .280	GST-1	GET301-UT
310-11	360-11	369-11	RG58 TFE	20 AWG	.165 - .178	GST-2	GET-301-1

Strip Dimensions





For complete cable assembly instructions turn to page 44 or visit our Website at: www.gemelec.com

Solid Center Conductor Only

Coaxial Wire Strippers/Tools Recommended

Universal Crimp Tool
GET-301-UT



GST-1



GST-2



GST-3



TNC 50 Ohm | Crimp-Crimp


PLUG (314)


JACK (367)

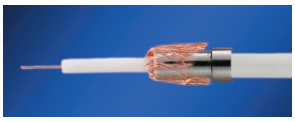

BULKHEAD JACK (368)

Crimp-Crimp Connectors

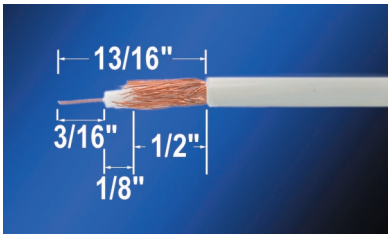
Plug	Jack	Bulkhead Jack	RG Cable Type	Wire Gauge	Jacket O.D.	Strip Tool	Crimp Tool
314-1	367-1	368-1	RG58, 141	20 AWG	.195 - .210	GST-4	GET-305-58596
314-10	367-10	368-10	RG59 TFE	22 AWG	.185 - .205	GST-4	GET-305-58596
314-11	367-11	368-11	RG58 TFE, 303	20 AWG	.165 - .178	GST-4	GET-305-58596
314-12	367-12	368-12	RG122	27AWG	.160 Nom.	GST-174	GET-305-12
314-13	367-13	368-13	RG142, 223, 400, 55	37 AWG	.195 Nom.	GST-4	GET-305-58596
314-14	367-14	368-14	RG180, 195,34M	27 AWG	.141 Nom.	GST-174	GET-305-12
314-16	367-16	368-16	RG450 Proflex	16 AWG	.220 - .250	GST-4	GET-305-58596
314-17	367-17	368-17	RG8X	14 AWG	.220 - .250	GST-4	GET-305-58596
314-18	367-18	368-18	RG8218	27 AWG	.150 Nom.	GST-174	GET-305-12
314-19	367-19	368-19	RG174, 188, 316	24 AWG	.109 - .117	GST-174	GET-305-12
314-2	367-2	368-2	RG59, 62, 140, 210	20-22 AWG	.220 - .250	GST-4	GET-305-58596
314-20	367-20	368-20	RG179, 187	27 AWG	.109 - .117	GST-174	GET-305-12
314-21	367-21	368-21	RG58, 59 RG59TFE	20-22 AWG	.185 - .205 .220 - .250	GST-4	GET-305-58596
314-22	367-22	368-22	RG58 RG59	20-22 AWG	.185 - .205 .220 - .250	GST-4	GET-305-58596
314-23	367-23	368-23	RG58 TFE, 303 RG59 TFE & 58	20-22 AWG	.165 - .178 .185 - .205	GST-4	GET-305-58596
314-25	367-25	368-25	RG58 Thinnet	18 AWG	.150 Nom.	GST-174	GET-305-12
314-26	367-26	368-26	RG11	11 AWG	.400 - .410	GST-6	GET-400-8
314-3	367-3	368-3	Belden 8281	20 AWG	.272 - .307	GST-5	GET-305-3
314-4	367-4	368-4	RG59 MATV RG6 TFE	20 AWG 18 AWG	.220 - .250	GST-4 GST-5	GET-305-58596
314-5	367-5	368-5	RG6	18 AWG	.270 - .280	GST-5	GET-305-58596

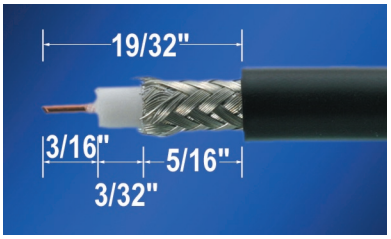
For complete cable assembly instructions turn to page 45 or visit our Website at: www.gemelec.com

Mini-Cable: RG 174, RG 179



Strip Dimensions





Coaxial Wire Strippers/Tools Recommended

GST-4



GST-5



GST-6



GST-174



GET-305-3



GET-305-58596



GET-305-12



GET-400-8



TNC Bulkhead Receptacles



329-12



329-1275

Model Number	Impedance
329-12	50 Ohm
329-1275	75 Ohm

TNC Jack to Jack Adapters



337-11



337-1175

Model Number	Impedance
337-11	50 Ohm
337-1175	75 Ohm

TNC Jack to Jack Bulkhead Adapters



339-0



339-075

Model Number	Impedance
339-0	50 Ohm
339-075	75 Ohm

TNC Resistor Terminations



310-T50

Model Number	Resistor
310-T50	50 Ω 1%
310-T75	75 Ω 1%
310-T93	93 Ω 1%

BNC 75 Ohm 0-1 GHz | Crimp-Crimp

PLUG (307)



PLUG (307-18)



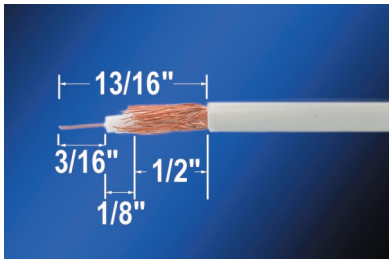
PLUG (307-18-4)



Crimp-Crimp Connectors

Plug	RG Cable Type	Belden Cable	Coleman Cable	Commscope Cable	Genesis Cable	Southwest Cable	WestPenn Cable
307-1	-	639948, 82241	-	-	-	-	-
307-10	-	89259	-	-	-	-	-
307-18 & 307-18-4	- -	8218, 735A1 1164A, HC2648 HC2650, 1418B 1167B, 673948	993205 - - -	735 7522 - -	5019 5020 5022 5029, 5099	212075 SO11183 - -	812, 25825 WP54424, WP54425 WP54426, WP8253 WP8254, WP8255
307-2	RG59, 62 140, 210	8212, 1426A 1505A	993201 -	734 5565	5009 5013	SO11168 SO11170	819, 25819 834
307-3	-	8281, 9231 9141, 9290	- -	- -	- -	- -	P806 P806F
307-31	-	8251	-	-	-	-	-
307-4	-	633948	-	-	-	-	256350
307-40	-	82241	-	-	-	-	-
307-45	-	1694A, 9428 89248, 5433845	- -	- -	- -	- -	6350, WP6354 6373, WP6355, 806
307-47	-	8541, 8263, 8279 8279A, 9209, 9209A	- -	- -	- -	- -	- -
304-48	-	8221, 9244, 8241A	-	-	-	-	-
307-50	-	643948, 82259 89259	- -	- -	- -	- -	- -
307-55	-	88281, 539945	-	-	-	-	-
307-60	-	82108, 89108	-	-	-	-	-

Strip Dimensions



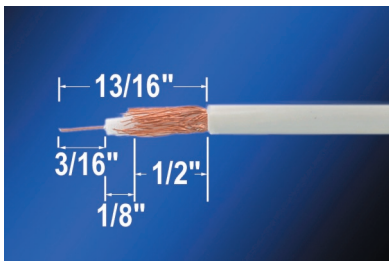
For complete cable assembly instructions turn to page 46 or visit our Website at: www.gemelec.com



Crimp-Crimp Connectors

Plug	RG Cable Type	Belden Cable	Coleman Cable	Commscope Cable	Genesis Cable	Southwest Cable	WestPenn Cable
317-1	-	639948 82241	-	-	-	-	-
317-10	-	89259	-	-	-	-	-
317-18	-	8218, 735A1 1164A, HC2648 HC2650, 1418B 1167B, 673948	993205 - - -	735 7522 - -	5019 5020 5022 5029,5099	212075 SO11183 - -	812, 25825 WP54424, WP54425 WP54426, WP8253 WP8254, WP8255
317-2	RG59, 62 140, 210	8212, 1426A 1505A	993201 -	734 5565	5009 5013	SO11168 SO11170	819, 25819 834
317-3	-	8281, 9231 9141, 9290	- -	- -	- -	- -	P806 P806F
317-31	-	8215	-	-	-	-	-
317-4	-	633948	-	-	-	-	256350
317-40	-	82241	-	-	-	-	-
317-45	-	1694A, 9428, 89248, 5433845	- -	- -	- -	- -	6350, WP6354 6373, WP6355, 806
317-47	-	8241, 8263, 8279, 8279A, 9209, 9209A	-	-	-	-	-
317-48	-	8221, 9244, 8241A	-	-	-	-	-
317-50	-	643948, 82259, 89259	-	-	-	-	-
317-55	-	88281, 539945	-	-	-	-	-
317-60	-	82108, 89108	-	-	-	-	-

Strip Dimensions



For complete cable assembly instructions turn to page 46 or visit our Website at: www.gemelec.com

BNC 75 Ohm 0-4 GHz | Crimp-Crimp

Plug (307-HP-101)



Plug (307-HP-102)



Plug (307-HP-103)



Plug (307-HP-104)



Plug (307-HP-105)



Adapter (327-1175)



Adapter "T" Plug-Jack-Plug (301-327-T75)



Adapter "T" Jack-Jack-Jack (327-75-3)



Adapter Bulkhead Jack-Jack (329-075)



Adapter Plug-Jack-Angle (301-RA75-350)



Return Loss

Frequency Range:	0-4 GHz
Impedance:	75 Ohms
Return Loss:	Better than 40 RdB to 1 GHz Better than 37 RdB to 2 GHz Better than 32 RdB to 3 GHz Better than 28 RdB to 4 GHz

Cross Reference Chart

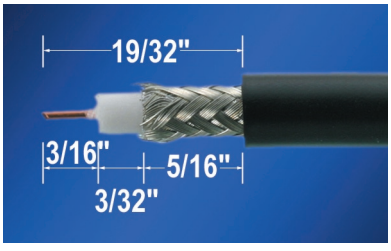
GEM Part Number	Kings Part Number	ADC Part Number	Amphenol Part Number
307-HP-101	2065-11-9	BNC-7	
307-HP-102	2065-10-9	BNC-8, BNC-10	31-71064
307-HP-103	2065-2-9	BNC-1, BNC-6	31-71008-1RFX
307-HP-104	2065-12-9	BNC-27	
307-HP-105	2065-8-9	BNC-25	
327-1175	2029-15-9	BNC-STRT-ADPT	31-70019
329-075	2029-8-9	BHFTI	31-70020
301-327-T75	2029-16-9		31-70036
327-753			
301-RAHP75-350	2029-20-9	BNC-RA-ADPT	31-9-75

The Best Performance In The Industry!!!!

Crimp-Crimp Connectors

Plug	Belden Cable	Commscope Cable	WestPenn Cable	Strip Tool	Ferrule Hex Size	Contact Crimp Size	Crimp Tool
307-HP-101	1855A 1865A	7538	HD825	GST-307-HP-101	.178	.042 Sq.	GET-307-HP-101
307-HP-102	1694A 1695A	5765	6350 256350	GST-307-HP-102	.278	.042 Sq.	GET-307-HP-102
307-HP-103	1505A 1506A	5565	819 25819	GST-307-HP-103	.258	.039 Sq.	GET-307-HP-103
307-HP-104	7855A	7530	7210	GST-307-HP-104	.323	.069 Sq.	GET-307-HP-104
307-HP-105	7731A 8231	5906	1135	Not Available	.429	.068 Hex	GET-307-HP-105A GET-307-HP-105B

Strip Dimensions



Straight Plugs & Adapters

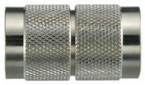
'N' Crimp Style Plug (400-1)



Jack To Jack (400-11)



Plug To Plug (400-400)



Plug To Jack Angle (400-RA-427)

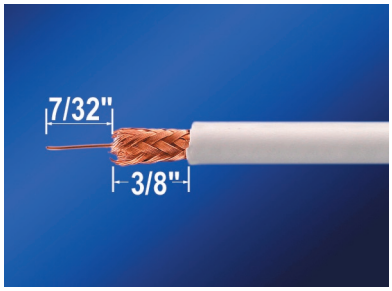


Straight Plug & Adapters

Male Plug	RG Cable Type	Wire Gauge	Jacket O.D.	Hex Crimp Ferrule Size	Strip Tool	Crimp Tool
400-1	RG58	18 AWG	.185 - .205	.213	GST-4	GET-400-1
400-16	Proflex RG450	18 AWG	.220 - .250	.255	GST-4	GET-400-1
400-17	RG8	16 AWG	.220 - .250	.255	GST-6	GET-400-1
400-142	RG142	18 AWG	.220 - .250	.255	GST-4	GET-400-1
400-142T	RG142TFE	20 AWG	.200 - .220	.213	GST-4	GET-400-1
400-2	RG59	22 AWG	.220 - .250	.255	GST-4	GET-400-1
400-8	RG8	13 AWG	.400 - .410	.404	GST-6	GET-400-8
**400-8/110	RG8, 213	10 AWG	.400 - .410	.404	GST-6	GET-400-8

**400-8/110 Solder Contact Only

Strip Dimensions



1. Taking care not to nick or cut the center conductor or braid, trim the cable as shown. Note: if there is a foil beneath the braid, leave this undisturbed.
2. Crimp contact to center conductor, making sure that contact is snug against the inner dielectric.
3. Slip crimp sleeve over cable.
4. Butt cable sub-assembly firmly into the connector housing.
5. Push crimp sleeve over braid, butting it firmly against the back of the connector housing, and crimp in the area indicated.

Coaxial Wire Strippers/Tools Recommended



GST-4



GST-6



GET-400-1, GET-400-8

F Straight Plugs & Adapters/Terminations



Hex Crimp Plug



Twist-On Plug



Radial Crimp Plug

Jack To Jack
(0401-11)



Plug To Plug
(0405-0405)



Plug To Jack Angle
(0485-0401)



75 Ohm Termination
(0401-T75)

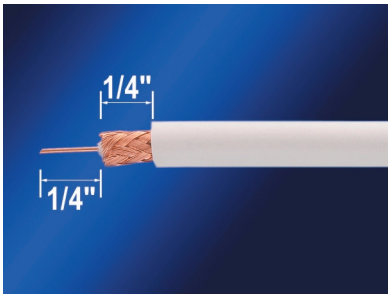


F Connectors

Plug	Termination Style	RG Cable Type	Strip Tool	Crimp Tool
0459-2M	Hex Crimp	RG59	GST-1	GET-301-UT
0459-3	Hex Crimp	RG59 Tri-shield	GST-1	GET-0406-5
0459-10	Hex Crimp	RG59TFE	GST-2	GET-301-UT
0406-1	Hex Crimp	RG6	GST-1	GET-301-UT
0406-10	Hex Crimp	RG6TFE	GST-3	GET-301-UT
0406-3	Hex Crimp	RG6 Tri-shield	GST-1	GET-0406-5
0406-4	Hex Crimp	RG6 Quad shield	GST-1	GET-0406-5
0406-6G	Hex Crimp w/ Gasket	RG6	GST-1	GET-301-UT
0406-6WP	Hex Crimp - Waterproof	RG6	GST-1	GET-301-UT
0459-2DTO	Twist-On	RG59	GST-1	No Need
0406-1TO	Twist-On	RG6	GST-1	No Need
0459-2RCG	Radial Crimp	RG59	GST-1	Not Available
0406-1RCG	Radial Crimp	RG6	GST-1	Not Available
0406-1TRCG	Radial Crimp	RG6 Tri-shield	GST-1	Not Available

Strip Dimensions

Solid Center Conductor Only



UHF Straight Plugs & Adapters



Crimp Plug
(259-1)

Jack To Jack
(249-249)



Plug To Plug
(259-259)



Plug To Jack Angle
(259-RA-249)



UHF Connectors

Plug	RG Cable Type	Strip Tool	Crimp Tool
259-1	RG58	GST-1	GET-259-1
259-17	RG58X	GST-2	GET-259-1 Combo
259-2	RG59	GST-1	GET-259-1 Combo

Mini - UHF Straight Plugs, Jacks & Adapters

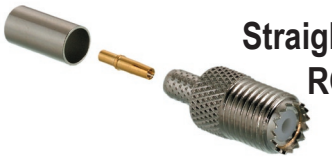


Straight Plug Twist-On
RG 58 Type Cable
(281-1)



Straight Plug Crimp-Crimp
RG 58 Type Cable
(280-1)

Straight Plug Crimp-Crimp
RG 174, 188, 316 Type Cable
(280-19)



Straight Jack Crimp-Crimp
RG 58 Type Cable
(286-1)

Straight Jack Crimp-Crimp
RG 174, 188, 316 Type Cable
(286-19)



Plug To Plug
(280-280)



Uni-Crimp BNC

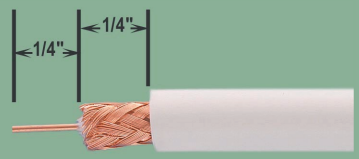
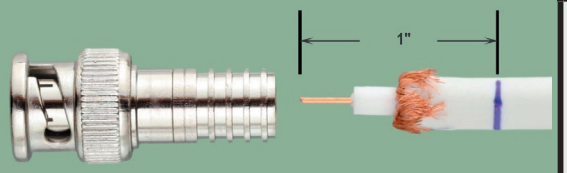
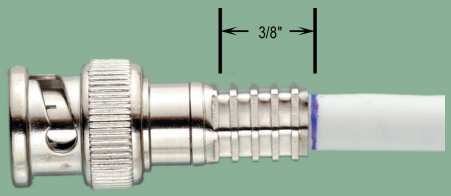
The New **GEM Electronics Uni-Crimp BNC Connector** line is ideal for the CCTV installer. The one piece design provides the ease of assembly of the Industry Standard Twist-On type connector, with the reliability of the Compression Seal connector, but at a very cost effective price.

- One Piece Design Allows 20 Second Termination
- 75 Ohm
- 30 lbs. Minimum Cable Retention
- Low Cost
- Standard Cable Strip Dimensions & Crimp Tool

GEM Part Numbers:

301-75-2TP	For RG59 Cable
301-75-10TP	For RG59 Plenum Cable
301-75-5TP	For RG6 Cable
301-75-510TP	For RG6 Plenum Cable
GET-301-UT	Universal Crimp Tool

Cable Assembly Procedures

	1.) Trim cable as shown using strip tool part number GST-1. Trim center conductor end at 45° angle.
	2.) Fold braid back. 3.) Mark cable as shown.
	4.) Push connector onto cable twisting connector clockwise and counter clockwise until connector end meets or passes mark on cable.
	5.) Using Crimp Tool part number GET-301-UT and .320 Hex, crimp connector body area as shown.

GEM Electronics introduces connectors for the new high end home automation Audio/Video Cables.

Compression Seal Products

Cable	RCA Straight Plug - Gold	RCA Right Angle Plug - Gold	F Straight Plug - Gold	F Right Angle Plug - Gold	BNC Straight Plug - Gold	BNC Right Angle Plug - Gold	Crimp Tool	Strip Tool	Color Code
Genesis - 5019, 5029, 5098, 5099	100-18CSGTP	101-18CSGTP	0459-18CSGTP	0460-18CSGTP	302-18CSGTP	303-18CSGTP	GET-RGB	GST-RGB	Black
West Penn - WP8255	100-18CSGTP	101-18CSGTP	0459-18CSGTP	0460-18CSGTP	302-18CSGTP	303-18CSGTP	GET-RGB	GST-RGB	Black
Belden - HC2648, HC2650	100-19CSGTP	N/A	N/A	N/A	302-19CSGTP	N/A	GET-RGB	GST-RGB	Orange/Red



For complete cable assembly instructions turn to pages 44-52 or visit our Website at: www.gemelec.com

Colored O Rings



Colored O Rings For All Compression Connectors

CS-ROR - RED
CS-WOR - WHITE
CS-BOR - BLUE
CS-GOR - GREEN
CS-YOR - YELLOW

All currently available

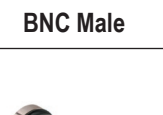
Compression Seal BNC, RCA & F

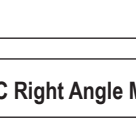
Straight & Angle Plugs & Straight Jacks For RG59 & RG6 Type Cable

F Male	Part Number	Cable	Color Code	Cable O.D.
	0459-2CS	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	0406-6CS	RG6 Type	Black	
	0406-610CS	RG6 Plenum Type	Gray	
	0406-6CS	RG6 Quad Plenum Type	Black	
	0406-6CSQS	RG6 Dual/Tri/Quad Type	Blue	
	0406-6CSQSG-Gold	RG6 Dual/Tri/Quad Type	Blue	
	0411-11CS	RG11 Type	Black	

F Right Angle Male	Part Number	Cable	Color Code	Cable O.D.
	0407-2CSTP	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	0407-6CSTP	RG6 Type	Black	
	0407-610CSTP	RG6 Plenum Type	Gray	
	0407-6CSTP	RG6 Quad Plenum Type	Black	
	0407-6CSQSTP	RG6 Dual/Tri/Quad Type	Blue	

F Female	Part Number	Cable	Color Code	Cable O.D.
	0401-2CSTP	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	0401-6CSTP	RG6 Type	Black	
	0401-610CSTP	RG6 Plenum Type	Gray	
	0401-6CSTP	RG6 Quad Plenum Type	Black	
	0401-6CSQSTP	RG6 Dual/Tri/Quad Type	Blue	

BNC Male	Part Number	Cable	Color Code	Cable O.D.
	302-N2CSTP	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	302-5CSTP	RG6 Type	Black	
	302-510CSTP	RG6 Plenum Type	Gray	
	302-5CSTP	RG6 Quad Plenum Type	Black	
	302-5CSQSTP	RG6 Dual/Tri/Quad Type	Blue	
	302-5CSQSGTP-Gold	RG6 Dual/Tri/Quad Type	Blue	
	302-8240CSTP	RG58 Type, Belden 8240	Orange	
	302-8241CSTP	RG59 Type, 23 AWG, Beldon 8241	Purple	

BNC Right Angle Male	Part Number	Cable	Color Code	Cable O.D.
	303-2CSTP	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	303-5CSTP	RG6 Type	Black	
	303-510CSTP	RG6 Plenum Type	Gray	
	303-5CSTP	RG6 Quad Plenum Type	Black	
	303-5CSQSTP	RG6 Dual/Tri/Quad Type	Blue	

BNC Female	Part Number	Cable	Color Code	Cable O.D.
	351-2CSTP	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	351-5CSTP	RG6 Type	Black	
	351-510CSTP	RG6 Plenum Type	Gray	
	351-5CSTP	RG6 Quad Plenum Type	Black	
	351-5CSQSTP	RG6 Type	Blue	

RCA Male	Part Number	Cable	Color Code	Cable O.D.
	100-2CSTP	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	100-6CSTP	RG6 Type	Black	
	100-610CSTP	RG6 Plenum Type	Gray	
	100-6CSTP	RG6 Quad Plenum Type	Black	
	100-6CSQSTP	RG6 Dual/Tri/Quad Type	Blue	
	100-6CSQSGTP-Gold	RG6 Dual/Tri/Quad Type	Blue	

RCA Right Angle Male	Part Number	Cable	Color Code	Cable O.D.
	101-2CSTP	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	101-6CSTP	RG6 Type	Black	
	101-610CSTP	RG6 Plenum Type	Gray	
	101-6CSTP	RG6 Quad Plenum Type	Black	
	101-6CSQSTP	RG6 Dual/Tri/Quad Type	Blue	

Hand Tool
GET-CS



Compression crimp tool.
NOTE: Includes cable cutter and separate adapter for F, BNC, and RCA connectors.

For RG 11 (F) only use.



Connector: 0411-11-CS

Hand Tool
GET-CS-11



Tool Kit
CS-TKNC
no connectors



Includes:
1 Crimp Tool Part Number:
GET-CS

1 Strip Tool Part Number:
GST-1

Compression Seal For RG59 & RG6, Continued

RCA Female	Part Number	Cable	Color Code	Cable O.D.
	125-2CSTP	RG59 PVC, Siamese & Plenum Type	Brown	.195 - .245
	125-6CSTP	RG6 Type	Black	
	125-610CSTP	RG6 Plenum Type	Gray	
	125-6CSTP	RG6 Quad Plenum Type	Black	
	125-6CSQSTP	RG6 Dual/Tri/Quad Type	Blue	

Tool Kit CS-TK

Includes:

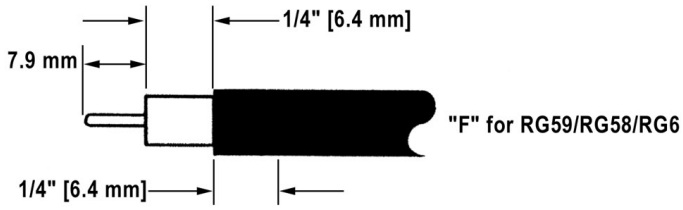
1 Crimp Tool Part Number: GET-CS
1 Strip Tool Part Number: GST-1
10 Each:

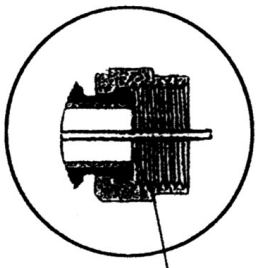
0459-2CS	F-RG59 BROWN INSERT
0406-6CS	F-RG6 BLACK INSERT
0406-6CSQS	F-RG6 QUAD BLUE INSERT
302-N2CS	BNC-RG59 BROWN INSERT
302-5CS	BNC-RG6 BLACK INSERT
100-2CS	RCA-RG59 BROWN INSERT
100-6CS	RCA-RG6 BLACK INSERT

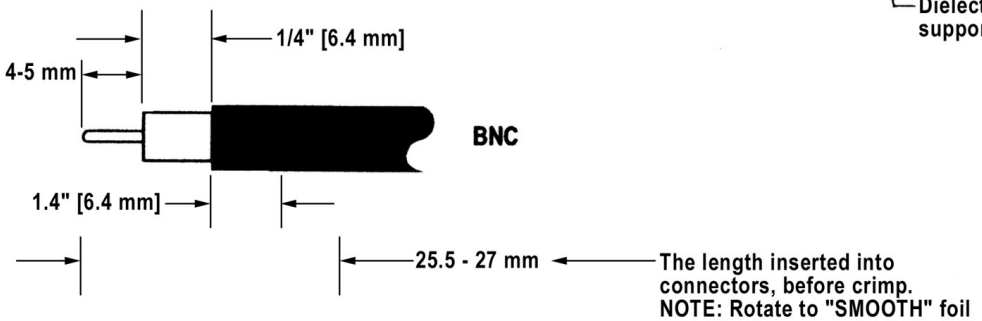
1 Empty Cavity

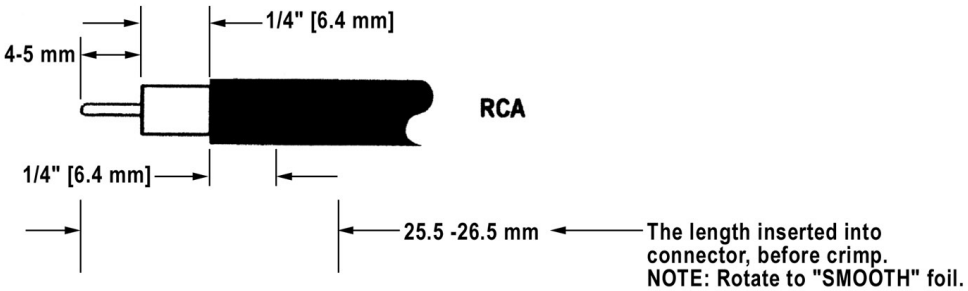


Cable Preparation









Note: Fold exposed braid back over jacket. Leave foil attached to dielectric.
For Quad Shield Cable: Fold outer braid back over jacket, remove outer foil, fold inner braid back over jacket.

Between Series Adapters

RCA Plug to Jack Angle	RCA Plug to BNC Jack	RCA Plug to F Jack	RCA Jack to F Jack	UHF Plug to BNC Plug
				
100-RA-125	100-350	100-0401	125-0401	259-301

UHF Plug to BNC Jack	UHF Plug to N Jack	UHF Plug to F Jack	Mini-UHF Jack to N Plug	Mini UHF Plug to BNC Jack
				
259-350	259-427	259-0401	260-400	280-350

Mini UHF Plug to TNC Jack	Mini UHF Plug to N Jack	BNC Plug to RCA Plug	BNC Plug to RCA Jack	BNC Plug to UHF Jack
				
280-360	280-427	301-100	301-125	301-249

BNC Plug to Mini UHF Jack	BNC Plug to TNC Jack	BNC Plug to N Jack	BNC Plug to F Jack	BNC Plug to F Plug
				
301-260	301-360	301-427	301-0401	301-0405

TNC Plug to BNC Jack	TNC Plug to N Jack	BNC Jack to N Jack	BNC Jack to F Jack	N Plug to UHF Plug
				
310-350	310-427	350-427	350-0401	400-259

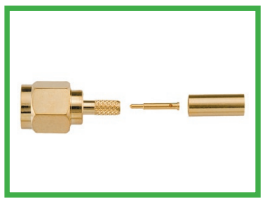
N Plug to BNC Jack	N Plug to TNC Jack	N Plug to FJack	SMA Plug to Mini UHF Jack	SMA Plug to BNC Jack
				
400-350	400-360	400-0401	800-260	800-350

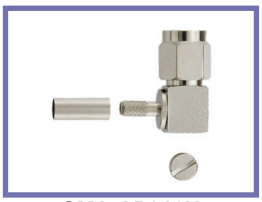
SMA Plug to N Jack	SMA Jack to BNC Plug	SMA Jack to N Plug	F Plug to RCA Jack	F Plug to BNC Jack
				
800-427	801-301	801-400	0405-125	0405-350

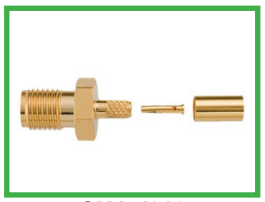
F Plug to N Jack

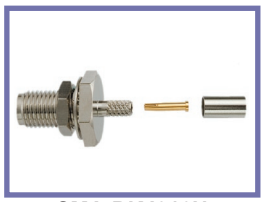
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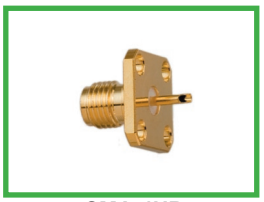
SMA Connectors

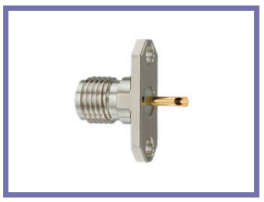

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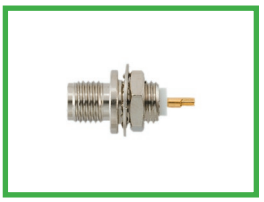

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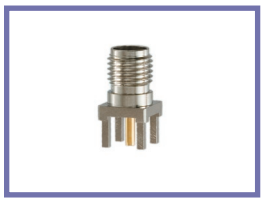

SMA-J316

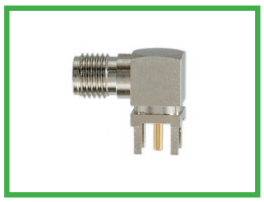

SMA-BKJ316N

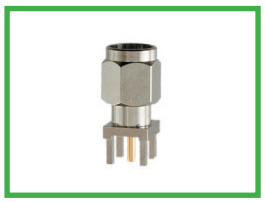

SMA-4HR

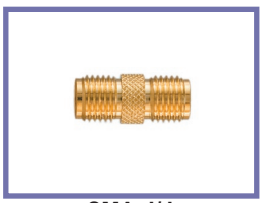

SMA-2HRN

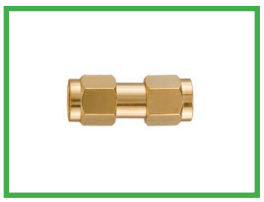

SMA-FMBKRN

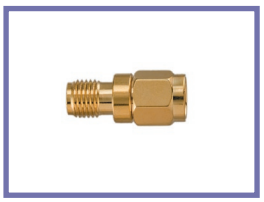

SMA-PCBJN

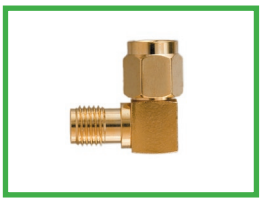

SMA-PCBAJN


SMA-PCBPN


SMA-J/J


SMA-P/P


SMA-P/J


SMA-AP/J

GEM Part Numbers

PLUG	ANGLE PLUG	JACK	BULKHEAD JACK	CABLE
SMA-P178N	SMA-AP178N	SMA-J178N	SMA-BKJ178N	RG178
SMA-P178DBN	SMA-AP178DBN	SMA-J178DBN	SMA-BKJ178DBN	RD178
SMA-P316N	SMA-AP316N	SMA-J316N	SMA-BKJ316N	RG316, 174, 188
SMA-P316DBN	SMA-AP316DBN	SMA-J316DBN	SMA-BKJ316DBN	RD316, 174, 188
SMA-P58N	SMA-AP58N	SMA-J58N	SMA-BKJ58N	RG58, 141, 142

Product is provided as standard nickel plated body and gold plated contacts. For gold plated bodies delete the “N” at the end of the part number.

GEM Part Number Descriptions

GEM Part Number	Description
SMA-4HRN	4 Hole Flange Receptacle
SMA-2HRN	2 Hole Flange Receptacle
SMA-FMBKRN	Front Mount Bulkhead Receptacle
SMA-PCBJN	Printed Circuit Board Mount Receptacle
SMA-PCBAJN	Right Angle Printed Circuit Mount Receptacle
SMA-PCBPN	Printed Circuit Board Mount Plug
SMA-J/JN	Adapter Jack/Jack
SMA-P/PN	Adapter Plug/Plug
SMA-AP/JN	Adapter Right Angle Plug/Jack

Electrical

Impedance	50 Ω
Frequency Range	.141" & .085" semi-rigid cable: 0-18 GHz Flexible cables: 0-12.4 GHz
Voltage Rating	RG-58, 141, 142: 500 volts peak RG-316, 174, 188: 375 volts peak
Dielectric Withstanding Voltage	.141" & RG-58, 141, 142 Cables: 1,000 VRMS .085" & RG-316, 174, 188 Cables: 750 VRMS
VSWR	Straight connector, .141": 1.05 + .005 f (GHz) Straight connector, .RG-316, 174, 188: 1.15 + .02 f (GHz) Straight connector, RG-58, 141, 142: 1.15 + .01 f (GHz) Straight connector, RG-178: 1.20 + .025 f (GHz)
Contact Resistance	Center contact: 2.0 mΩ Body: 2.0 mΩ Braid to body: 0.5 mΩ
Insulation Resistance	5,000 MΩ
Insertion Loss	dB maximum = .06v[f(GHz)] Test frequency @ 6.0 GHZ
RF Leakage	-90 dB minimum @ 2.3 GHz

Mechanical

Mating	.250-36 threaded coupling
Mating Torque	Minimum: 2 inch pounds (12 N.cm) Recommended: 7-10 inch pounds (80-110 N.cm) Maximum: 15 inch pounds (170 N.cm)
Connector Durability	100 matings

Material

Bodies, Coupling Nuts, Other Metal Parts (except as noted)	Brass per QQ-B-626
Contacts	Male: Brass Female: Beryllium copper, heat treated
Center Contact Plating	.000030" minimum gold
Plating (Other Metal Parts)	Standard .000010" gold or nickel plated
Insulator	TFE fluorocarbon
Gaskets	Silicone rubber
Crimp Ferrule	Seamless copper tubing alloy

Environmental

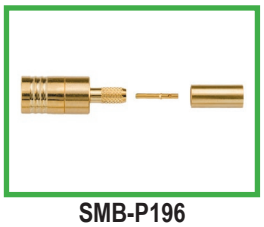
Temperature Range	- 65°C to +165°C
Thermal Shock	MIL-STD-202 method 107 (test condition B) except high temperatures @ + 200°C
Vibration	MIL-STD-202 method 204 (test condition D)
Shock	MIL-STD-202 method 213 (test condition I). No discontinuity permitted.
Corrosion	MIL-STD-202 method 101 (test condition B) 5% salt solution
Moisture Resistance	MIL-STD-202 method 106, except step 7b (vibration) omitted, and high humidity measurements do not apply
Weatherproofing	Crimp type: heat shrink tubing Solder type: silicone rubber gaskets
Altitude	MIL-STD-202 method 105 (test condition C), no corona at 70,000 feet. .141" & RG-55: 250 VRMS .085" & RG-122: 190 VRMS

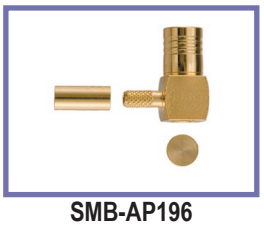
Military Specifications

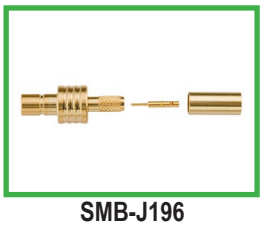
MIL-C-39012 & MIL-C-83517 SMA Specification Sheets	As applicable

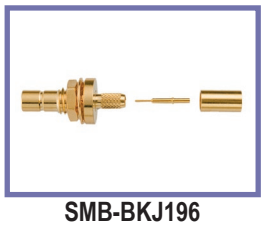
Note: These characteristics are typical but may not apply to all connectors.

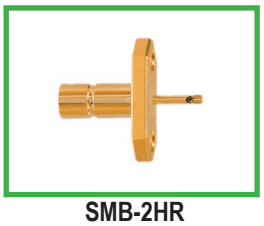
SMB Connectors

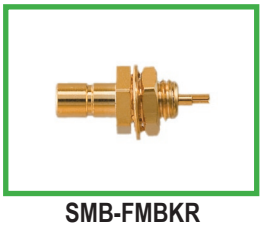

SMB-P196

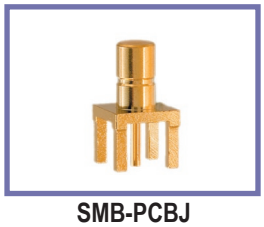

SMB-AP196

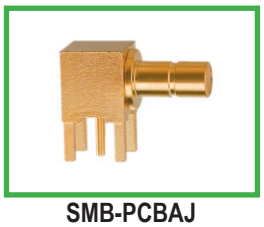

SMB-J196

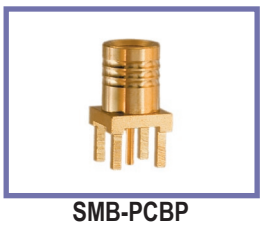

SMB-BKJ196

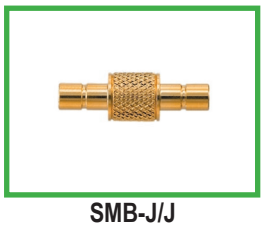

SMB-2HR

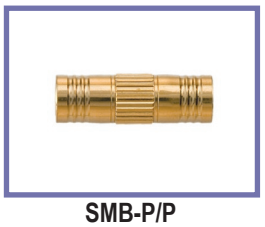

SMB-FMBKR

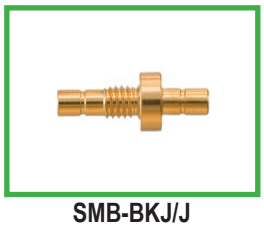

SMB-PCBJ


SMB-PCBAJ


SMB-PCBP


SMB-J/J


SMB-P/P


SMB-BKJ/J

GEM Part Numbers

PLUG	ANGLE PLUG	JACK	BULKHEAD JACK	CABLE
SMB-P196N	SMB-AP196N	SMB-J196N	SMB-BKJ196N	RG196
SMB-P196DBN	SMB-AP196DBN	SMB-J196DBN	SMB-BKJ196DBN	RD196 double braid
SMB-P188N	SMB-AP188N	SMB-J188N	SMB-BKJ188N	RG188, 174, 316
SMB-P188DBN	SMB-AP188DBN	SMB-J188DBN	SMB-BKJ188DBN	RD188, 174, 316 double braid
SMB-P58N	SMB-AP58N	SMB-J58N	SMB-BKJ58N	RG58, 141, 142

Product is provided as standard nickel plated body and gold plated contacts. For gold plated bodies delete the “N” at the end of the part number.

GEM Part Number Descriptions

GEM Part Number	Description
SMB-2HRN	2 Hole Flange Mount Receptacle
SMB-FMBKRN	Front Mount Bulkhead Receptacle
SMB-PCBJN	Printed Circuit Board Mount Receptacle
SMB-PCBAJN	Right Angle Printed Circuit Board Mount Receptacle
SMB-PCBPN	Printed Circuit Board Mount Plug
SMB-J/JN	Adapter Jack/Jack
SMB-P/PN	Adapter Plug/Plug
SMB-BKJ/JN	Adapter Bulkhead Jack/Jack

50 Ω SMB Specifications

Electrical

Impedance	50 Ω
Frequency Range	0-4 GHz with low reflection; usable to 10.0 GHz
Voltage Rating for RG-188/U Cable	335 volts at sea level and 85 volts at 70,000 feet
Dielectric Withstanding Voltage	RG-196: 750 VRMS; RG-188: 1,000 VRMS
VSWR	Straight connector, RG-196/U: 1.30 + .04 f (GHz) Right angle connector, RG-196/U: 1.45 + .06 f (GHz) Straight connector, RG-188/U: 1.25 + .04 f (GHz) Right angle connector, RG-188/U: 1.35 + .04 f (GHz)
Contact Resistance	Center contact: 6.0 mΩ initial, 8.0 after environmental; Outer contact: 1.0 mΩ initial, 1.5 after environmental Braid to body: 1.0 mΩ initial, after environmental N/A
Insulation Resistance	1,000 MΩ minimum
Insertion Loss	Straight connector: 0.30 dB @ 1.5 GHz Right angle connector: 0.60 dB @ 1.5 GHz
RF Leakage	-55 dB minimum @ 2-3 GHz

Mechanical

Mating	Snap-on coupling per MIL-STD-348
Braid/Jacket Cable Affixment	Hex crimp
Center Conductor Cable Affixment	Solder
Contact Captivation	All types unless noted otherwise
Cable Retention	Equal to breaking strength of cable employed
Engagement Forces	Engagement: 14 lbs maximum Disengagement: 2 lbs minimum After 500 matings, 14 lbs maximum engagement and disengagement
Connector Durability	500 mating cycles minimum

Material

Center Contact	Female: beryllium copper, gold-plated Male: brass or beryllium copper, gold-plated
Outer Contact Plating	Nickel or gold plating as indicated
Body	Brass per QQB-626, or zinc per ASTM B86-71
Body Plating	Nickel or gold plating as indicated
Insulator	TFE
Crimp Ferrule	Annealed copper alloy

Environmental

Temperature Range	- 65°C to +165°C
Thermal Shock	MIL-STD-202 method 107, test condition B (except high temperatures @ 200°C
Shock	MIL-STD-202 method 202, method 13, snap-on, test condition B; 75 G's @ 6 milliseconds ½ sine
Vibration	MIL-STD-202 method 204, snap-on, test condition B; (15 G's)
Corrosion	MIL-STD-202 method 101, test condition B. 5% salt solution

Note: These characteristics are typical but may not apply to all connectors.

Cable Cross Reference Chart

Manufacturer:
Belden Incorporated 50 Ohm Connectors

Belden Cable Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
735A1			305-18
1151A	302-4	301-00	305-2
1152A	302-5	301-00	305-5
1164B			305-18
1167B			305-18
1186A	302-4	301-00	305-2
1189A	302-3	301-3	305-3
1223A	302-5	301-00	305-5
1418B			305-18
1426A	302-4	301-00	305-2
1505A	302-4	301-00	305-2
1506A	302-1	301-00	305-10
1530A	302-5	301-00	305-5
1530AP	302-4	301-00	305-2
1532A	302-5	301-00	305-5
1613A	302-5	301-00	305-5
1672A			
1694A	302-5	301-00	305-5
1695A	302-5	301-00	305-5
1808A			
1809A	302-4	301-00	305-2
1828A	302-5	301-00	305-5
1829A	302-5	301-00	305-5
1855A			
1865A			
7731A			
7808A			305-17
7855A			
8212	302-4	301-00	305-2
8215			305-3
8216			305-19
8218			305-18
8219			305-1
8221			305-2
8231			
8240	302-1	301-00	305-1
8241	302-4	301-00	305-2
8241A	302-4	301-00	305-2
8241B	302-4	301-00	305-2
8241F			305-2
8244	302-4	301-00	305-2
8259			305-1
8262			305-1
8263	302-4	301-00	305-2
8273			305-25
8279			
8279A			
8281	302-3	301-3	305-3
8281B	302-3	301-3	305-3
8281F	302-3	301-3	305-3
9052	302-4	301-00	305-2
9054	302-4	301-00	305-2
9058	302-5	301-00	305-5
9060	302-5	301-00	305-5
9062	302-5	301-00	305-5
9066	302-5	301-00	305-5
9100	302-4	301-00	305-2
9104	302-4	301-00	305-2
9104P	302-4	301-00	305-2
9104R	302-4	301-00	305-2
9108	302-4	301-00	305-2
9108P	302-4	301-00	305-2
9110	302-4	301-00	305-2
9114	302-5	301-00	305-5
9116	302-5	301-00	305-5
9116P	302-4	301-00	305-4
9116R	302-5	301-00	305-5

Belden Cable Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
9117	302-5	301-00	305-5
9118	302-5	301-00	305-5
9141	302-3	301-3	305-3
9201	302-1	301-00	305-1
9203			305-1
9204	302-4	301-00	305-2
9209			
9209A			
9221			305-20
9231	302-3	301-3	305-3
9240	302-4	301-00	305-2
9244			
9428	302-5	301-00	305-5
9252			305-12
9258			305-17
9259			305-2
9274	302-4	301-00	305-2
9275	302-4	301-00	305-2
9290			305-3
9310	302-1	301-00	305-1
9311			305-1
9659			305-2
9907			305-1
9913F			
82108	302-4	301-00	305-2
82120	302-4	301-00	305-2
82241	302-1	301-00	305-1
82248	302-4	301-00	305-4
82259			305-10
82907			305-26
83241	302-1	301-00	305-1
83242	302-1	301-00	305-1
83264			305-20
84141	302-1	301-00	305-1
84142			305-1
87120	302-4	301-00	305-4
87269	302-1	301-00	305-10
88232	302-4	301-00	305-2
88241	302-10	301-00	305-10
88281	302-5	301-00	305-5
89108	302-4	301-00	305-4
89120	302-4	301-00	305-2
89248	302-5	301-00	305-5
89259			305-10
89269	302-10	301-00	
89555			305-25
89907			305-26
539945	302-5	301-00	305-5
543945	302-4	301-00	307-2
573945			305-18
633948	302-4	301-00	305-4
639948	302-1	301-00	305-1
643948	302-4	301-00	305-4
673948			305-18

Cable Cross Reference Chart

Belden Incorporated 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
735A1	307-18											
1151A												
1152A		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
1164B	307-18											
1167B	307-18											
1186A											0406-1	301-75-5TP
1189A											0459-2M	301-75-2TP
1223A	307-45										0459-2M	301-75-2TP
1418B	307-18										0459-2M	301-75-2TP
1426A	307-2											
1505A	307-HP-103										0459-2M	301-75-2TP
1506A	307-HP-103											
1530A												
1530AP											0406-1	301-75-5TP
1532A		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
1613A		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
1672A											0406-1	301-75-5TP
1694A	307-HP-102											
1695A	307-HP-102										0406-1	301-75-5TP
1808A											0406-1	301-75-5TP
1809A	307-2											
1828A												
1829A											0406-1	301-75-5TP
1855A	307-HP-101										0406-1	301-75-5TP
1865A	307-HP-101											
7731A	307-HP-105											
7808A												
7855A	307-HP-104											
8212	307-2										04592M	301-75-2TP
8215	307-31											
8216												
8218	307-18										0459-2M	301-75-2TP
8219												
8221	307-2											
8231	307-HP-105											
8240												
8241	307-2										0459-2M	301-75-2TP
8241A	307-2	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
8241B	307-2	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
8241F	307-2											
8244		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
8259												
8262												
8263	307-2	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
8273												
8279	307-47											
8279A	307-47											
8281	307-3											
8281B	307-3										0459-2M	301-75-2TP
8281F	307-3										0459-2M	301-75-2TP
9052		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9054		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9058		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
9060		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
9062		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
9066		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
9100		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9104		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9104P		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9104R		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9108		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9108P		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9110		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
9114		302-5CSTP	351-5CSTP	303-5NSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
9116		302-5CSTP	351-5CSTP	303-5NSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
9116P		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
9116R		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP		

Cable Cross Reference Chart

Belden Incorporated 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
9117		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
9118		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
9141	307-3											
9201												
9203												
9204	307-2	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP		
9209	307-47											
9209A	307-47										0406-1	301-75-5TP
9221												
9231	307-3										0459-2M	301-75-5TP
9240	307-2	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
9244	307-48											
9428	307-45										0459-2M	301-75-5TP
9252												
9258												
9259	307-2											
9274	307-2	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
9275		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
9290	307-3											
9310												
9311												
9659	307-2											
9907												
9913F											0406-1	301-75-5TP
82108	307-60	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
82120		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
82241	307-1	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP		
82248											0406-1	301-75-5TP
82259	307-10											
82907												
83241												
83242												
83264												
84141												
84142												
87120												
87269		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
88232		302-2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
88241	307-2											
88281	307-55	302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
89108	307-60	302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
89120		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
89248	307-45	302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
89259	307-10										0406-10	301-75-510TP
89269												
89555												
89907												
539945	307-55	302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
543945	307-2											
573945	307-18											
633948	307-4										0406-10	301-75-510TP
639948	307-1	302-10CSTP	351-10CSTP	303-10CSTP	100-10CSTPTP	125-10CSTP	101-10CSTP	0459-10CS	0401-10CSTP	0407-10CSTP		
643948	307-50	302-510CSTP	351-510CSTP	303-510CSTP	100-610CS	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
673948	307-18											
5433845	307-45											
HC2600		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
HC2610		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
HC2611		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
HC2648	307-18	302-19CSGTP		303-19CSGTP	100-19CSGTP		101-19CSGTP					
HC2650	307-18	302-19CSGTP		303-19CSGTP	100-19CSGTP		101-19CSGTP					
HC2800		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-5TP
HC7916		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	

Cable Cross Reference Chart

Manufacturer:
Coleman Cable 50 Ohm Connectors

Coleman Cable Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
1591			305-1
1591F			305-1
1596			305-19
1596F			305-19
8299			305-2
8405			305-2
8418			305-3
8422			305-13
82011	302-5	301-00	
82049	302-5	301-00	
92001	302-5	301-00	
92002			305-10
92003	302-5	301-00	
92004	302-4	301-00	
92005	302-4	301-00	
92006	302-4	301-00	305-2
92009	302-4	301-00	
92011	302-5	301-00	305-5
92032	302-5	301-00	305-5
92041	302-3	301-3	
92043	302-5	301-00	
92045	302-5	301-00	
92061	302-5	301-00	
92074	302-4	301-00	
92094			305-2
99911	302-5	301-00	305-5
99962			305-2
99969	302-1	301-00	305-1
920036	302-5	301-00	305-5
920039	302-5	301-00	305-5
920069	302-4	301-00	
920413	302-3	301-3	
920741	302-4	301-00	
921003	302-4	301-00	305-2
921005	302-4	301-00	305-2
921007	302-4	301-00	305-2
921009	302-4	301-00	305-2
921015	302-4	301-00	305-2
921019	302-5	301-00	
921021			305-11
921024	302-1	301-00	305-1
921025			305-11
921027			305-11
922132	302-5	301-00	305-5
991020			305-17
991039	302-1	301-00	305-1
991041	302-1	301-00	305-1
991045	302-1	301-00	305-1
991047	302-1	301-00	305-1
991049			305-1
991053	302-1	301-00	305-1
991055			305-2
991057	302-4	301-00	
991061	302-4	301-00	
991069			305-19
991079			305-13
991401			305-13
992101	302-4	301-00	305-2
992109	302-4	301-00	305-2
992113	302-4	301-00	
992115	302-4	301-00	
992117	302-4	301-00	
992127	302-5	301-00	
992132	302-5	301-00	
992141	302-5	301-00	
992144	302-5	301-00	

Coleman Cable Part number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
992151	302-3	301-3	
992433	302-5	301-00	
992479	302-5	301-00	305-5
993201			
993205			
993251			305-2
993253			305-2
993256			305-10
993317			305-1

Cable Cross Reference Chart

Coleman Cable 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
1591												
1591F												
1596												
1596F												
8299												
8405												
8418												
8422												
82011		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
82049		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
92001		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
92002												
92003		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
92004		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
92005		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
92006		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
92009		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
92011		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
92032		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
92041												
92043		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
92045		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
92061		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
92074		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
92094												
99911		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
99962												
99969												
920036		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
920039		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
920069											0459-2M	301-75-2TP
920413												
920741		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
921003		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
921005		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
921007		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
921009		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
921015		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
921019		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
921021												
921024												
921025												
921027												
922132		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
991020												
991039												
991041												
991045												
991047												
991049												
991053												
991055												
991057		302-2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
991061		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
991069												
991079												
991401												
992101		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
992109		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
992113		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
992115		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
992117		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	O459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
992127		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
992132		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
992141		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
992144		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
992151												
993253												
993256												
993317												

Cable Cross Reference Chart

Manufacturer:
Commscope Wire & Cable 50 Ohm Connectors

Commscope Wire & Cable Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
734			
735			
2022K	302-4	301-00	305-2
2022V	302-4	301-00	305-2
2037K			305-10
2037V			305-10
2065K			305-10
2065V			305-10
2100K	302-11	301-11	305-11
2104K			305-11
2104V			305-11
2100V	302-11	301-11	305-11
2120K	302-11	301-11	305-11
2120V	302-11	301-11	305-11
2125	302-1	301-00	305-1
2125K	302-1	301-00	305-1
2135K			305-11
2227K	302-5	301-00	305-5
2227V	302-5	301-00	305-5
2228K	302-5	301-00	305-5
2229K	302-5	301-00	305-5
2249K	302-1	301-00	
2249V	302-1	301-00	
2250K	302-1	301-00	
2250V	302-1	301-00	
2275K	302-4	301-00	305-2
2275V	302-4	301-00	305-2
2276V	302-4	301-00	305-2
2277K	302-4	301-00	305-2
2277V	302-4	301-00	305-2
2278K	302-4	301-00	305-2
2278V	302-4	301-00	305-2
2279K	302-4	301-00	305-2
2279V	302-4	301-00	305-2
3104			305-1
3111			305-1
3123	302-1	301-00	305-10
3130	302-1	301-00	305-10
3135			305-1
3136			305-1
3139			305-1
5540	302-5	301-00	305-5
5550			305-2
5552	302-4	301-00	305-2
5553	302-4	301-00	305-2
5555	302-4	301-00	305-2
5557	302-4	301-00	305-2
5560	302-4	301-00	305-2
5563	302-4	301-00	305-2
5565	302-4	301-00	305-2
5569	302-4	301-00	305-2
5571	302-4	301-00	305-2
5572	302-4	301-00	305-2
5573	302-4	301-00	305-2
5575	302-4	301-00	305-2
5586	302-4	301-00	305-2
5700	302-5	301-00	305-5
5701	302-5	301-00	305-5
5702	302-5	301-00	305-5
5713	302-3		305-3
5715	302-5	301-00	305-5
5725	302-5	301-00	305-5
5726	302-5	301-00	305-5
5727	302-5	301-00	305-5
5728	302-5	301-00	305-5

Commscope Wire & Cable Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
5730	302-5	301-00	305-5
5731	302-5	301-00	305-5
5737	302-5	301-00	305-5
5740	302-3	301-3	
5750	302-3	301-3	
5765	302-5	301-00	305-5
5906			
6200	302-4	301-00	305-2
6608	302-4	301-00	305-2
6609	302-4	301-00	305-2
6615	302-4	301-00	305-2
7500	302-3	301-3	305-3
7501	302-3	301-3	305-3
7503	302-3	301-3	305-3
7505	302-3	301-3	305-3
7522			
7530			
7538			
7725	302-1	301-00	
7726	302-1	301-00	
2000896			

Cable Cross Reference Chart

Commscope Wire & Cable 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
734	307-2											
735	307-18											
2022K		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2022V		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2037K												
2037V												
2065K												
2065V												
2100K												
2104K												
2104V												
2100V												
2120K												
2120V												
2125												
2125K												
2135K												
2227K		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
2227V		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
2228K		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
2229K		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
2249K												
2249V												
2250K												
2250V												
2275K		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2275V		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2276V		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2277K		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2277V		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2278K		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2278V		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2279K		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2279V		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
3104												
3111												
3123												
3130												
3135												
3136												
3139												
5540		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5550												
5552		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5553		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5555		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5557		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5560		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5563		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5565	307-HP-103	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5569		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5571		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5572		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5573		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5575		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5586		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5700		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5701		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5702		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5713												
5715		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5725		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5726		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5727		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5728		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5730		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5731		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5737		302-5CSTP	351-6CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP

Cable Cross Reference Chart

Commscope Wire & Cable 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
5740												
5750												
5765	307-HP-102	302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5906	307-HP-105											
6200		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
6608		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
6609		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
6615		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
7500												
7501												
7503												
7505												
7522												
7530	307-HP-104											
7538	307-HP-101											
7725												
7726												
2000896		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	

Cable Cross Reference Chart

General Cable Systems 50 & 75 Ohm Connectors

General Cable Part Number	GEM Electronics Part Number		
	50 Ohm Connectors		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
C1103	302-4	301-00	305-4
C1142	302-4	301-00	305-4
C3500	302-1	301-00	305-10
C3523	302-4	301-00	305-4
C3524	302-4	301-00	305-4
C5761	302-5	301-00	305-5
C5770	302-4	301-00	305-4
C5775	302-5	301-00	305-5
C5785			
C5814	302-5	301-00	305-5
C5822	302-5	301-00	305-5
C5824	302-5	301-00	305-5
C5826	302-5	301-00	305-5
C5889			
C5900	302-5	301-00	305-5
C5910	302-5	301-00	305-5
C5920			
C8025	302-1	301-00	305-4
C8027	302-1	301-00	305-4
C8029	302-5	301-00	305-5

Part #	GEM Electronics Part Number										
	75 Ohm Connectors										
	Crimp/ Crimp	Compression Seal								Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
C1103		302-N2CSTP	351-2CSTP	303-SCSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
C1142		302-N2CSTP	351-2CSTP	303-SCSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
C3500		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
C3523		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
C3524		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
C5761		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
C5770		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
C5775		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
C5785		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
C5814		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
C5822		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
C5824		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
C5826		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
C5889		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
C5900		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
C5910		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
C5920		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
C8025		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
C8027		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
C8029		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP

Cable Cross Reference Chart

Manufacturer:
Genesis Cable Systems 50 Ohm Connectors

Genesis Cable Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
5001	302-4	301-00	305-2
5002	302-5	301-00	305-5
5003	302-5	301-00	305-5
5004	302-4	301-00	305-2
5006	302-4	301-00	305-2
5007			
5008			
5009	302-4	301-00	305-2
5010	302-5	301-00	305-5
5011	302-5	301-00	305-5
5012	302-5	301-00	305-5
5013	302-4	301-00	305-2
5018			
5019			
5020			
5021	302-5	301-00	305-5
5022			
5025			305-3
5026			305-3
5027	302-5	301-00	305-5
5029			
5038	302-5	301-00	305-5
5050			
5051			
5055			
5057			
5059			
5060			
5061			
5062			
5066			
5067			
5099			
5301	302-4	301-00	305-2
5302	302-5	301-00	305-5
5303	302-5	301-00	305-5
5351	302-1	301-00	305-24
5352	302-4	301-00	305-4
5353	302-4	301-00	305-4
5354	302-1	301-00	305-10
5355	302-4	301-00	305-2
5356	302-5	301-00	305-5

Cable Cross Reference Chart

Genesis Cable Systems 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
5001		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75 2TP
5002		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5003		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
5004		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75 2TP
5006		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75 2TP
5007		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5008		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5009		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75 2TP
5010		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-3	
5011		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-3	
5012		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5013		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75 2TP
5018								0411-11CS				
5019	307-18	302-18CSGTP		303-18CSGTP	100-18CSGTP		101-18CSGTP	0459-18CSG		0460-18CSGTP		
5020	307-18											
5021		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
5022	307-18											
5025		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-3	
5026		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-3	
5027		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
5029	307-18	302-18CSGTP		303-18CSGTP	100-18CSGTP		101-18CSGTP	0459-18CSG		0460-18CSGTP		
5038		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
5050		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5051		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5055		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5057		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5059		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5060		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5061		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5062		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5066		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5067		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
5099	307-18	302-18CSGTP		303-18CSGTP	100-18CSGTP		101-18CSGTP	0459-18CSG		0460-18CSGTP		
5301		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75 2TP
5302		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5303		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
5351		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
5352		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
5353		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
5354											0459-10	301-75-10TP
5355		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75 2TP
5356		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-3	

Cable Cross Reference Chart

Manufacturer:
Reemee Products Corporation 50 Ohm Connectors

Reemee Products Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
1510/95	302-4	301-00	305-2
1525	302-4	301-00	305-2
1526	302-4	301-00	305-2
1531	302-5	301-00	305-5
1535	302-4	4011-00	305-2
1561	302-5	301-00	305-5
1562			
1563	302-5	301-00	305-5
1564			
1586			
725102	302-1	301-00	305-10
725105	302-4	301-00	305-4
725113	302-4	301-00	305-4
725526	302-1	301-00	305-10

Reemee Products Corporation 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp /Crimp	Compression Seal									Crimp /Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
1510/95		302-N2CSTP	351-N2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
1525		302-N2CSTP	351-N2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
1526		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
1531		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
1535		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
1561		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
1562		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
1563		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-1	301-75-5TP
1564		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-4	
1586								0411-11CS				
725102		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	
725105		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
725113		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
725526		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP

Cable Cross Reference Chart

Manufacturer:
Southwest Wire & Cable 50 Ohm Connectors

Southwest Wire & Cable Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
200100	302-4	301-00	305-2
200160	302-5	301-00	
200201	302-5	301-00	
200205	302-5	301-00	305-5
211010	302-5	301-00	305-5
211011	302-5	301-00	305-5
211301	302-4	301-00	305-2
211514	302-1	301-00	305-1
211515			305-1
212000	302-4	301-00	
212053	302-4	301-00	305-2
212060			305-2
212065	302-3	301-3	
212075			305-18
213000	302-4	301-00	
216100			305-19
216400			305-13
220400	302-4	301-00	305-2
220402	302-4	301-00	305-2
220404	302-5	301-00	305-5
221000			305-1
221105			305-10
SO03200	302-4	301-00	305-2
SO03300	305-5	301-00	305-5
SO03301			
SO03305	302-1	301-00	305-10
SO11150	302-4	301-00	305-2
SO11152	302-4	301-00	305-2
SO11153	302-4	301-00	305-2
SO11154	302-1	301-00	
SO11155	302-1	301-00	
SO11156	302-1	301-00	
SO11160			305-10
SO11162	302-1	301-00	305-10
SO11168			305-2
SO11170			305-2
SO11172	302-4	301-00	305-2
SO11173	302-4	301-00	
SO11175			305-1
SO11176	302-1	301-00	305-10
SO11177	302-1	301-00	305-1
SO11178			305-4
SO11179			305-1
SO11180	302-4	301-00	305-2
SO11183			305-18
SO11188			305-26
SO11195		303-2	
SO11196	304-4		305-2
SO11200	302-4	301-00	305-2
SO11204	302-4	301-00	305-2
SO11205	302-4	301-00	305-2
SO11206	302-1	301-00	305-1
SO11207	302-1	301-00	305-10
SO11210	302-1	301-00	305-10
SO11211	302-1	301-00	
SO11212	302-4	301-00	305-2
SO11213	302-4	301-00	305-2
SO11214	302-1	301-00	305-10
SO11220	302-5	301-00	305-5
SO11225	302-5	301-00	305-5

Cable Cross Reference Chart

Southwest Wire & Cable 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
200100		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
200160		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
200201		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
200205		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
211010		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
211011		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
211301		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
211514												
211515												
212000		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
212053		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
212060												
212065												
212075												
213000		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
216100												
216400												
220400		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
220402		302-2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
220404		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
221000												
221105												
SO03200		302-2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO03300		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
SO03301											0406-3	
SO03305		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	407-610CSTP	0406-10	301-75-510TP
SO11150		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11152		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11153		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11154												
SO11155		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
SO11156		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
SO11160												
SO11162		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
SO11168												
SO11170												
SO11172		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11173		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11175												
SO11176		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
SO11177												
SO11178												
SO11179												
SO11180		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11183												
SO11188												
SO11195												
SO11196		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11200		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11204		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11205		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11206												
SO11207		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
SO11210		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
SO11211												
SO11212		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11213		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
SO11214		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
SO11220		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
SO11225		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP

Cable Cross Reference Chart

Manufacturer:
West Penn Wire 50 Ohm Connectors

West Penn Wire Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
804	302-4	301-00	305-2
806	302-5	301-00	305-5
811			305-26
812			305-18
813	302-1	301-00	305-13
814	302-4	301-00	305-2
815	302-4	301-00	305-2
816			305-2
818			305-2
819	302-4	301-00	305-2
820	302-4	301-00	305-2
821			305-26
825			305-18
834	302-4	301-00	305-2
840	302-1	301-00	305-10
841	302-5	301-00	305-5
841S	302-5	301-00	305-5
842	302-5	301-00	305-5
843	302-4	301-00	305-4
845	302-4	301-00	305-4
1135			
2814	302-4	301-00	305-2
2815	302-4	301-00	305-2
2816			305-2
4806	302-5	301-00	305-5
4811			305-26
4815	302-4	301-00	305-2
5900	302-4	301-00	305-2
5905	302-4	301-00	305-2
5915	302-4	301-00	305-2
5920	302-4	301-00	305-2
5930	302-4	301-00	305-2
5935	302-4	301-00	305-2
5940	302-4	301-00	305-2
5945	302-4	301-00	305-2
5950	302-4	301-00	305-2
5960	302-4	301-00	305-2
5965	302-4	301-00	305-2
5970	302-4	301-00	305-2
5975	302-4	301-00	305-4
5985	302-4	301-00	305-2
5990	302-4	301-00	305-2
6100	302-5	301-00	305-5
6110	302-5	301-00	305-5
6140	305-5	301-00	305-5
6150	302-5	301-00	305-5
6170	302-5	301-00	305-5
6190	302-5	301-00	305-5
6200	302-5	301-00	305-5
6210	302-5	301-00	305-5
6325	302-5	301-00	305-5
6350	302-5	301-00	305-5
6373	302-5	301-00	305-5
7210			
25806	302-4	301-00	305-4
25811			305-26
25812			305-25
25814	302-1	301-00	305-10
25815	302-1	301-00	305-30WP
25819	302-1	301-00	305-30WP
25820	302-1	301-00	305-10
25821			305-26
25825			305-18
25841	302-4	301-00	305-4

West Penn Wire Part Number	GEM Electronics Part Number		
	Twist-On	Crimp-On	Crimp/Crimp
	BNC Plug	BNC Plug	BNC Plug
25843	302-1	301-00	305-30WP
25862			305-25
252815	302-1	301-00	305-30WP
256350	302-4	301-00	305-4
25Q841	302-5	301-00	305-5
25Q8415	302-5	301-00	305-5
25Q843	302-4	301-00	305-2
25T841	302-4	301-00	305-4
25T843	302-1	301-00	305-30WP
AQC819	302-4	301-00	305-2
AQC841	302-5	301-00	305-5
HD825			
P804	302-4	301-00	305-2
P806	301-3	301-3	305-3
Q841	302-5	301-00	305-5
Q843	302-4	301-00	305-4
WP54424			305-18
WP44425			305-18
WP54426			305-18
WP6353	302-5	301-00	305-5
WP6354	302-5	301-00	305-5
WP6355	302-5	301-00	305-5
WP8253			305-18
WP8254			305-18
WP8255			305-18
WP9654			305-19
WP9655			305-19

Cable Cross Reference Chart

West Penn Wire 75 Ohm Connectors

Part #	GEM Electronics Part Number											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
804		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
806		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
811												
812												
813												
814		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
815		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
816												
818												
819	307-HP-103	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
820		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
821												
825												
834		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
840		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
841		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
841S		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
842		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
843		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
845		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
1135	307-HP-105											
2814		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2815		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
2816												
4806		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
4811												
4815		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5900		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5905		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5915		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5920		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5930		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5935		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5940		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5945		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5950		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5960		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5965		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5970		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5975		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5985		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
5990		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
6100		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6110		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6140		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6150		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6170		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6190		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6200		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6210		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6325		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6350	307-HP-102	302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
6373		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
7210	307-HP-104											
25806		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
25811												
25812												
25814												
25815											0459-10	301-75-10TP
25819	307-HP-103	302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
25820		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-10	301-75-10TP
25821												
25825												
25841		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
25843											0459-10	301-75-10TP
25862												
252815											0459-10	301-75-10TP
256350	307-HP-102	302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP

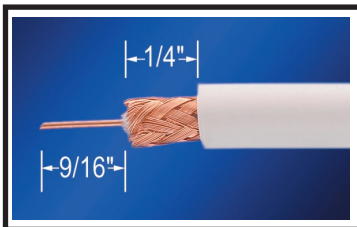
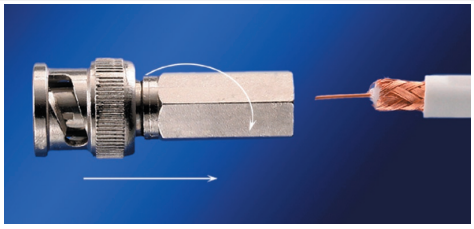
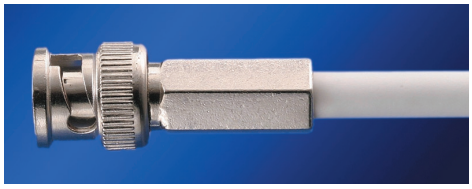
Cable Cross Reference Chart

West Penn Wire 75 Ohm Connectors

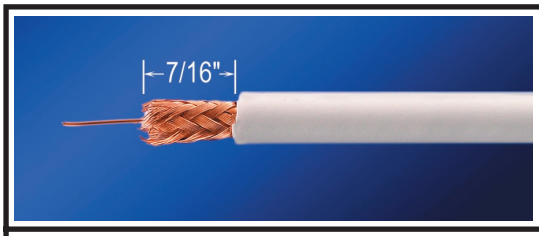
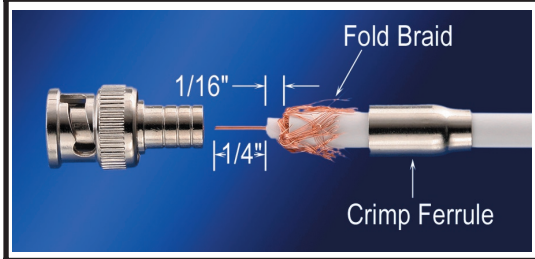
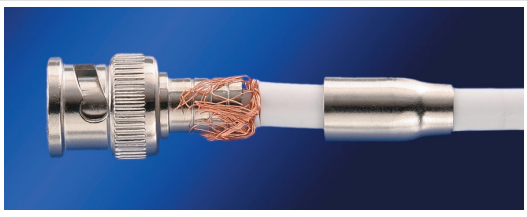
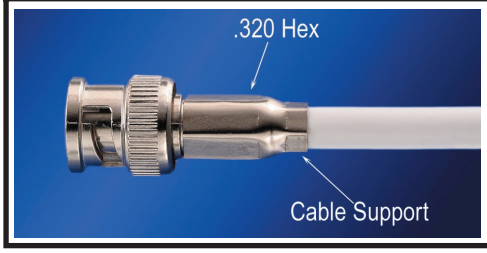
Part #	75 Ohm Connectors											
	Crimp/ Crimp	Compression Seal									Crimp	Uni-Crimp
	BNC Plug	BNC Plug	BNC Jack	BNC Angle Plug	RCA Plug	RCA Jack	RCA Angle Plug	F Plug	F Jack	F Angle Plug	F Plug	BNC Plug
25Q841		302-5CSQSTP	351-5CSQSTP	303-5CSQSTP	100-6CSQSTP	125-6CSQSTP	101-6CSQSTP	0406-6CSQS	0401-6CSQSTP	0407-6CSQSTP	0406-3	
25Q8415		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
25Q843		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
25T841		302-510CSTP	351-510CSTP	303-510CSTP	100-610CSTP	125-610CSTP	101-610CSTP	0406-610CS	0401-610CSTP	0407-610CSTP	0406-10	301-75-510TP
25T843											0459-10	301-75-510TP
AQC819		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
AQC841												
HD825	307-HP-101											
P804		302-N2CSTP	351-2CSTP	303-2CSTP	100-2CSTP	125-2CSTP	101-2CSTP	0459-2CS	0401-2CSTP	0407-2CSTP	0459-2M	301-75-2TP
P806												
Q841												
Q843												
WP54424												
WP44425												
WP54426												
WP6353		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
WP6354		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
WP6355		302-5CSTP	351-5CSTP	303-5CSTP	100-6CSTP	125-6CSTP	101-6CSTP	0406-6CS	0401-6CSTP	0407-6CSTP	0406-1	301-75-5TP
WP8253												
WP8254												
WP8255		302-18CSGTP		303-18CSGTP	100-18CSGTP		101-18CSGTP	0459-18CSG		0460-18CSGTP		
WP9654												
WP9655												

Cable Assembly Instructions

Twist-On Procedure For BNC, TNC And F Connectors

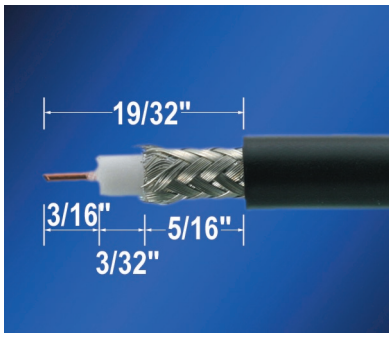
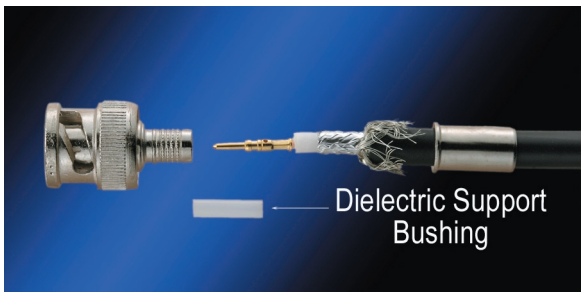
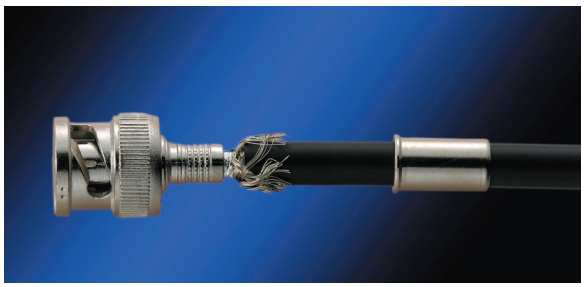
	1) Trim cable as shown using strip tool P/N GST-1. Trim center conductor end at a 45º angle. *Note: Do not fold back braid.
	2) Push connector onto cable while twisting in a clockwise direction. Continue until connector will go no further.
	3) Using open ended wrench on hex body, twist connector an additional 3 turns.

Crimp-On Procedure For BNC & TNC Connectors

	1) Trim Cable as shown.
	2) Slide crimp ferrule onto cable. 3) Fold braid back and complete trimming the cable as ahown. Trim center conductor end at a 45º angle.
	4) Push connector onto cable. 5) Fold braid back over crimp body. 6) Push crimp ferrule up over braid and crimp body.
	7) Using universal crimp tool P/N GET-301-UT, crimp ferrule to connector using .320 hex. 8) Crimp cable support with approriate hex: .264 RG6PVC - .250 RG59 PVC, RG6 TFE - .212 RG59TFE, RG58PVC

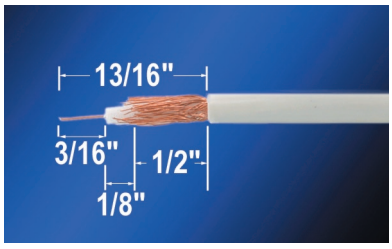
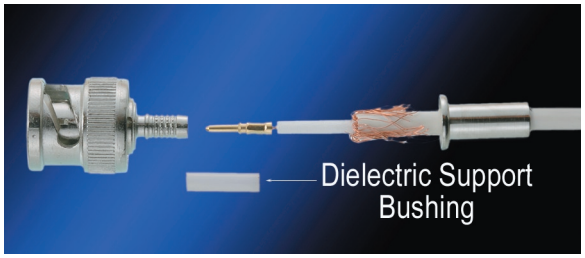
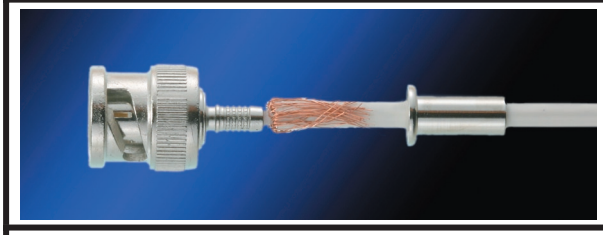
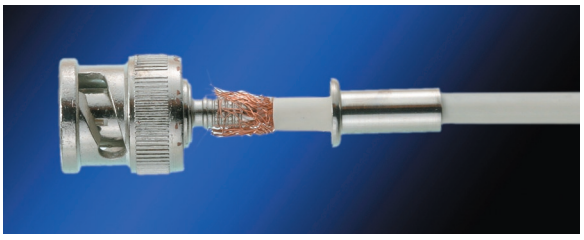
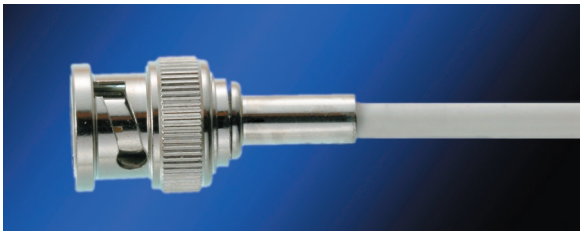
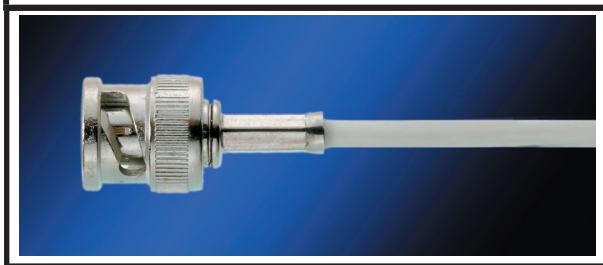
Cable Assembly Instructions

BNC & TNC Crimp-Crimp 50 Ohm

	1) Strip cable as shown with strip tool. Cut center conductor at a 45° angle.
	2a) Crimp center contact onto center conductor using crimp tool. 2b) Slide crimp ferrule onto cable. 2c) Fold back braid. Note: When using 305-18-4 connector, slide dielectric support bushing onto cable.
	3) Hold cable tightly at braid area, push cable into connector until contact snaps into place.
	4) Fold braid back over crimp body area of connector.
	5) Slide ferrule up over braid and crimp ferrule using crimp tool.

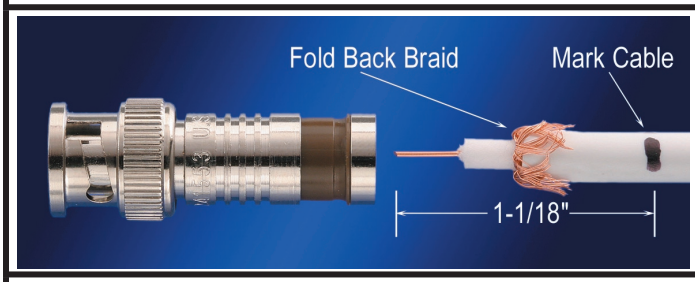
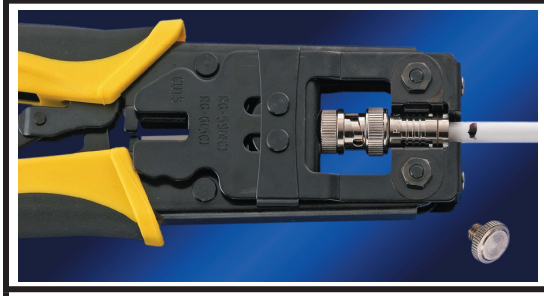
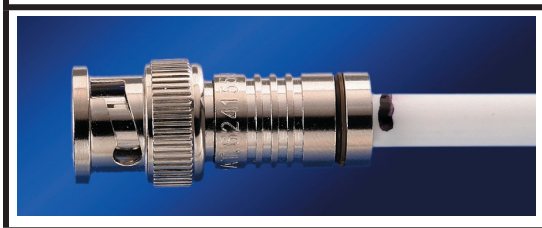
Cable Assembly Instructions

BNC & TNC Crimp-Crimp 75 Ohm

	1) Strip cable as shown. Cut center conductor at a 45º angle.
	2a) Crimp center contact onto center conductor. 2b) Slide crimp ferrule onto cable. 2c) Fold back braid. Note: When using 307-18-4 connector, slide dielectric support bushing onto cable.
	3) Hold cable tightly at braid area, push cable into back of connector until contact snaps into place.
	4) Fold braid back over crimp body area of connector.
	5) Push crimp ferrule up over braid and crimp.
	6) Give connector a pull to guarantee 30 lbs. cable retention.

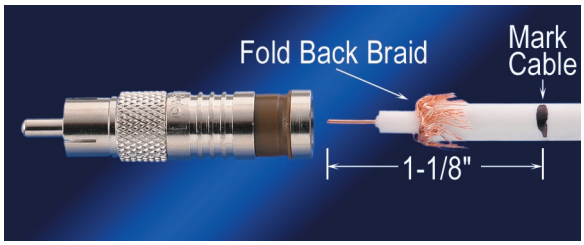
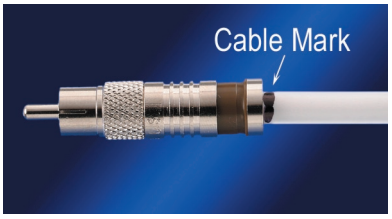
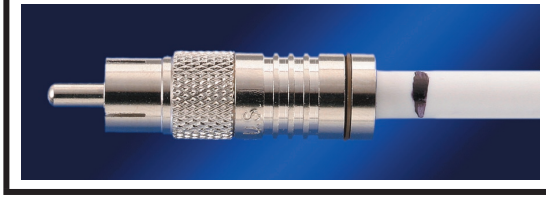
Cable Assembly Instructions

BNC Connector Compression Seal Procedure
For RG59 and 6 Type Cables

	1) Trim cable as shown using strip tool P/N GST-1. Trim center conductor end at a 45º angle.
	2) Fold braid back. *Note: For quad shield cable cut off first foil and fold back second braid. 3) Mark cable as shown.
	4) Push connector onto cable twisting connector clockwise and counter clockwise until connector end meets or passes mark on cable.
	5) Make sure “BNC” die head is in crimp tool P/N GET-CS. 6) Nest cable and connector into crimp tool. *Note: For right angle and female connectors use no die head.
	7) Squeeze handle. Crimp tool is ratcheted and will release when compression is complete.
	8) Remove connector and cable from tool and give a pull (30 lbs.) to assure proper termination.

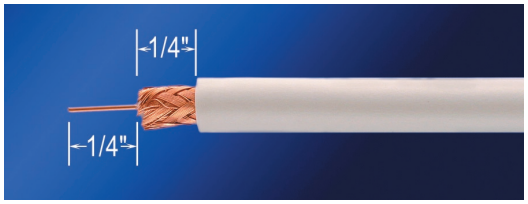
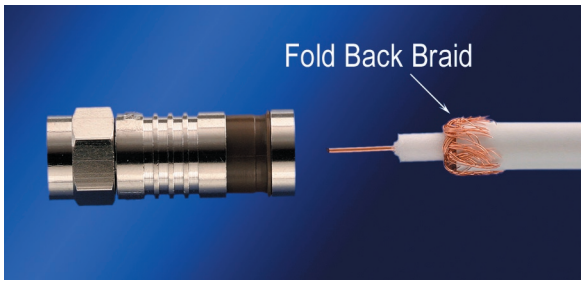
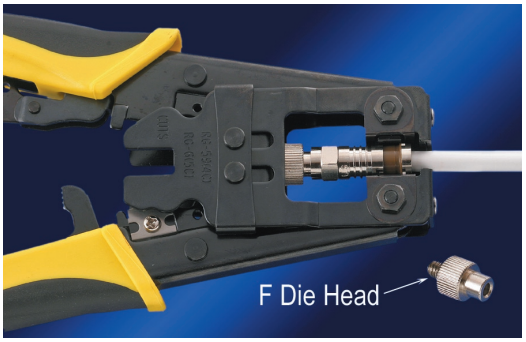
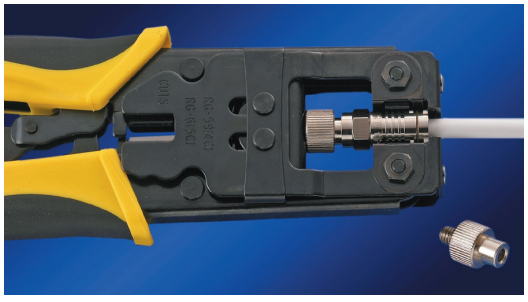
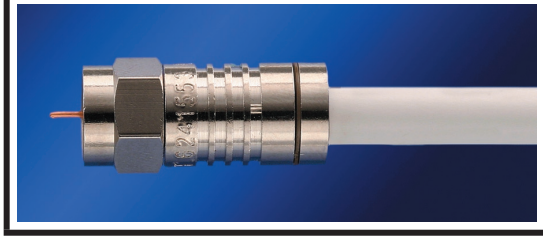
Cable Assembly Instructions

RCA Connector Compression Seal Procedure
For RG59 & 6 Type Cables

	1) Trim cable as shown using strip tool P/N GST-1. Trim center conductor end at a 45° angle.
	2) Fold braid back. *Note: For quad shield cable cut-off first foil and fold back second braid. 3) Mark cable as shown.
	4) Push connector onto cable twisting connector clockwise and counter clockwise until connector end meets or passes mark on cable.
	5) Make sure "RCA" die head is in crimp tool P/N GET-CS. 6) Nest cable and connector into crimp tool. *Note: For right angle and female connectors use no die head.
	7) Squeeze handle. Crimp tool is ratcheted and will release when compression is completed.
	8) Remove connector and cable from tool and give a pull (30 lbs.) to assure proper termination.

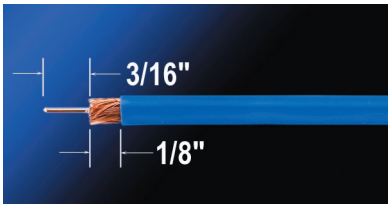
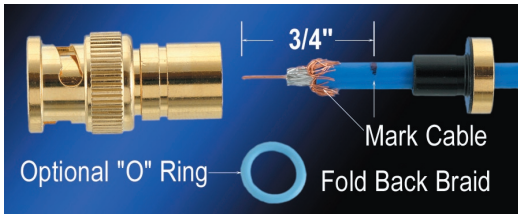
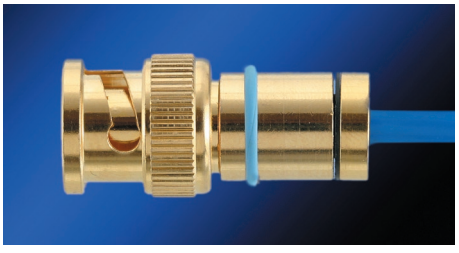
Cable Assembly Instructions

F Connector Compression Seal Procedure
For RG59 & 6 Type Cables

	1) Trim cable as shown using strip tool P/N GST-1. Trim center conductor end at a 45° angle.
	2) Fold braid back. *Note: For quad shield cable cut-off first foil and fold back second braid. 3) Push connector onto cable twisting in a clockwise and counter clockwise direction until cable dielectric is flush with connector mandrel face.
	4) Make sure "F" die head is in crimp tool P/N GET-CS. 5) Nest cable and connector into crimp tool. *Note: For right angle and female connector use no die head.
	6) Squeeze handle. Crimp tool is ratcheted and will release when compression is complete.
	7) Remove connector and cable from tool and give a pull (30 lbs.) to assure proper termination.

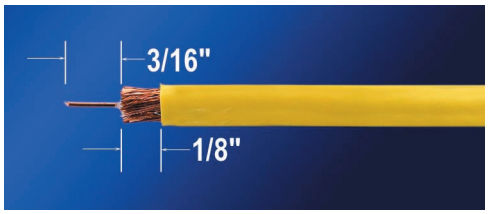
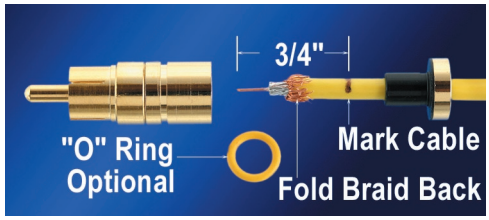
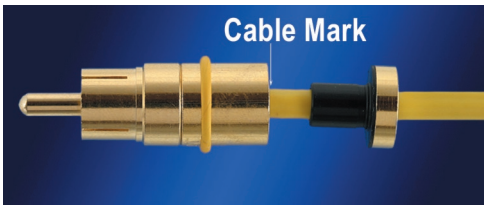
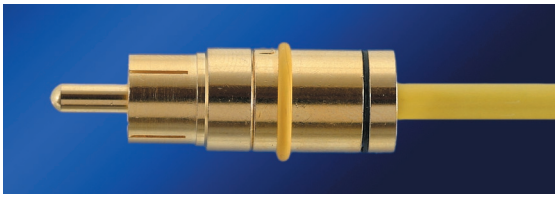
Cable Assembly Instructions

BNC Connector Compression Seal Procedure For RGB Cable

	1) Trim cable as shown using strip tool P/N GST-RGB. 2) Trim center conductor end at a 45° angle.
	3) Mark cable as shown. 4) Slide compression sleeve onto cable.
	5) Slide optional color-coded “O” ring onto connector - will fit precisely in curve in body. 6) Push connector onto cable twisting connector clockwise and counter clockwise until connector meets or passes mark on cable.
	7) Make sure “BNC” die head is in crimp tool P/N GET-RGB. Option: Spacer washer may be installed on die head if preferred. 8) Nest cable and connector into crimp tool. *Note: For right angle connectors, use BNC die head without spacer.
	9) Squeeze handle until compression sleeve is pushed into connector body. Die head may need some adjustment to push compression sleeve completely into connector body.
	10) Remove connector and cable from tool and give a pull (30 lbs.) to assure proper termination.

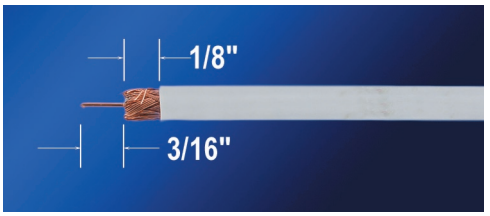
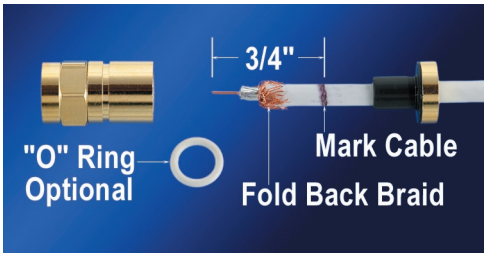
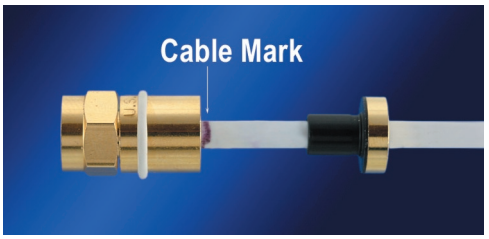
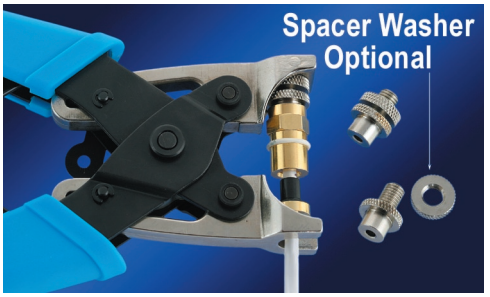
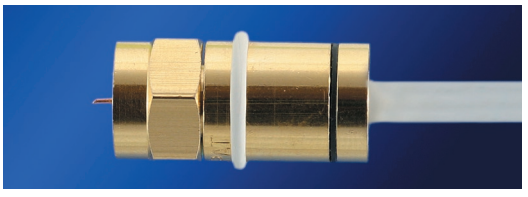
Cable Assembly Instructions

RCA Connector Compression Seal Procedure For RGB Cable

	1) Trim cable as shown using strip tool P/N GST-RGB. 2) Trim center conductor end at a 45° angle.
	3) Mark cable as shown. 4) Slide compression sleeve onto cable.
	5) Slide optional color-coded “O” ring onto connector -will fit precisely in curve in body. 6) Push connector onto cable twisting connector clockwise and counter clockwise until connector end meets or passes mark on cable.
	7) Make sure “RCA” die head is in crimp tool P/N GET-RGB. Option: Spacer washer may be installed on die head if preferred. 8) Nest cable and connector into crimp tool. *Note: For right angle connectors use RCA die head without spacer.
	9) Squeeze handle until compression sleeve is pushed into connector body. Die head may need some adjustment to push compression sleeve completely into connector body.
	10) Remove connector and cable from tool and give a pull (30 lbs.) to assure proper termination.

Cable Assembly Instructions

F Connector Compression Seal Procedure
For RGB Cable

	1) Trim cable as shown using strip tool P/N GST-RGB. 2) Trim center conductor end at a 45° angle.
	3) Mark cable as shown. 4) Slide compression sleeve onto cable.
	5) Slide optional color-coded “O” ring onto connector - will fit precisely in curve in body. 6) Push connector onto cable twisting connector clockwise and counter clockwise until connector end meets or passes mark on cable.
	7) Make sure “F” die head is in crimp tool P/N GET-RGB. 8) Nest cable and connector into crimp tool. *Note: For right angle connectors, use F die head without spacer.
	9) Squeeze handle until compression sleeve is pushed into connector body. Die head may need some adjustment to push compression sleeve completely into connector body.
	10) Remove connector and cable from tool and give a pull (30 lbs.) to assure proper termination.

Passive Baluns

CCTV VIDEO BALUN

The **CCTV Video Balun** allows base-band composite video signals to be transmitted via a single unshielded twisted pair cable (UTP) for more versatile cabling. The CCTV Balun is used in pairs to allow you to eliminate more expensive coaxial cable, includng coupling signals from remote video cameras to display systems, video capture, security and surveillance monitoring applications.

The use of existing twisted pair infrastructure such as telephone cable and category 5 computer networking cables are also available. All our Baluns are 100% tested for reliability and durability to guarantee your signal integrity.

Specifications

Cable-UTP ...24 gauge or lower solid twisted pair wire impedance: 100 Ohm at 1MHz Maximum capacitance: 20pf / ft
Attenuation: 6.6 dB / 1000 ft at 1 MHz

Cable-BNC.... Impedance: 75 Ohm at 1 MHz (RG59/U) Maximum 25ft. of coax allowed per end to end link

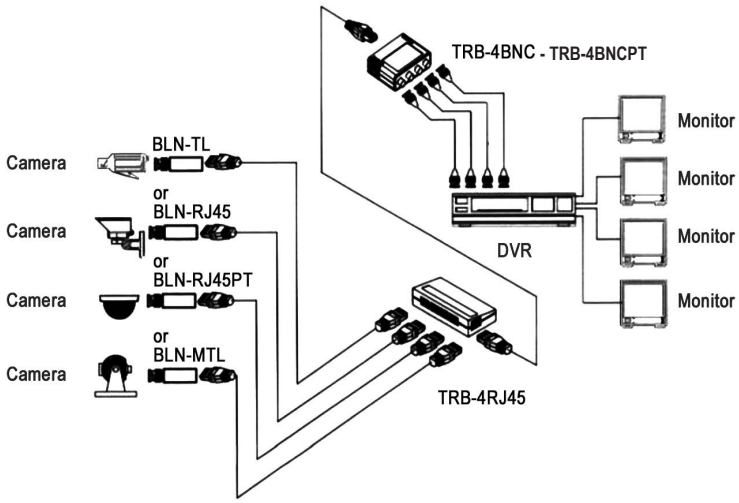
Max. Distance..... Color: Cat. 3 - 1200ft., Cat. 5 - 2200 ft
Monochrome: Cat. 3 1500ft. , Cat. 5 - 2500ft.

Environment required:..... Operating temperature: 0 to 55º C
Storage temperature: -22 to 85º C
Humidity up to 95%

Electrical Characteristic & Performance

- **Bandwidth.....**Video DC to 8 MHz
- **Maximum input...**1.1 Vp-p
- **Impedance.....**75 ohm to 100 Ohm (or 75 Ohm to 120 Ohm on request)
- **Insertion loss.....**Max. 2dB per pair over the frequency range from DC to 8 MHz
- **Return loss.....**Greater than 15dB over the frequency range from DC to 8 MHz
- **Common mode rejection.....**Greater than 40dB at 8 MHz

- **No AC power or batteries needed**
- **Bi-directional signal conversion**
- **Ultra-miniature enclosure**



Superior Picture Up To 2,000 Feet

ACTUAL PHOTOS



6 Foot RG59



1000 Feet CAT5E with 2 (BLN-TL) Baluns DVR Adjusted



2000 Feet CAT5E with 2 (BLN-TL) Baluns DVR Adjusted

CCTV Products

VIDEO BALUN

Approximate Voltage Drop 20˚ C for CAT 6										
mA	Length of Run (feet)									
	50	100	150	200	250	300	350	500	750	1000
100	0.24	0.5	0.7	0.9	1.2	1.4	1.6	2.4	3.5	4.7
150	0.4	0.7	1.1	1.4	1.8	2.1	2.5	3.5	5.3	7.1
200	0.5	0.9	1.4	1.9	2.4	2.8	3.3	4.7	7.1	9.4
250	0.6	1.2	1.8	2.4	2.9	3.5	4.1	5.9	8.8	11.8
300	0.7	1.4	2.1	2.8	3.5	4.2	4.9	7.1	10.6	14.1
350	0.8	1.6	2.5	3.3	4.1	4.9	5.8	8.2	12.3	16.5
400	0.9	1.9	2.8	3.8	4.7	5.6	6.6	9.4	14.1	18.8
450	1.1	2.1	3.2	4.2	5.3	6.3	7.4	10.6	15.9	21.2
500	1.2	2.4	3.5	4.7	5.9	7.1	8.2	11.8	17.6	23.5
550	1.3	2.6	3.9	5.2	6.5	7.8	9.0	12.9	19.4	25.9
600	1.4	2.8	4.2	5.6	7.1	8.5	9.9	14.1	21.2	28.2
700	1.6	3.3	4.9	6.6	8.2	9.9	11.5	16.5	24.7	32.9
800	1.9	3.8	5.6	7.5	9.4	11.3	13.2	18.8	28.2	37.6
900	2.1	4.2	6.3	8.5	10.6	12.7	14.8	21.2	31.7	42.3
1000	2.4	4.7	7.1	9.4	11.8	14.1	16.5	23.5	35.3	47.0

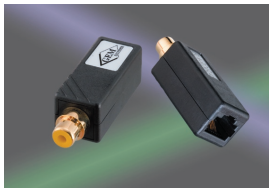
Approximate Voltage Drop 20˚ C for CAT 5										
mA	Length of Run (feet)									
	50	100	150	200	250	300	350	500	750	1000
100	0.26	0.51	0.77	1.03	1.29	1.54	1.80	2.57	3.86	5.14
150	0.39	0.77	1.16	1.54	1.93	2.31	2.70	3.86	5.78	7.71
200	0.51	1.03	1.54	2.06	2.57	3.08	3.60	5.14	7.71	10.28
250	0.64	1.29	1.93	2.57	3.21	3.86	4.50	6.43	9.64	12.85
300	0.8	1.5	2.3	3.1	3.9	4.6	5.4	7.7	11.6	15.4
350	0.9	1.8	2.7	3.6	4.5	5.4	6.3	9.0	13.5	18.0
400	1.0	2.1	3.1	4.1	5.1	6.2	7.2	10.3	15.4	20.6
450	1.2	2.3	3.5	4.6	5.8	6.9	8.1	11.6	17.3	23.1
500	1.3	2.6	3.9	5.1	6.4	7.7	9.0	12.9	19.3	25.7
550	1.4	2.8	4.2	5.7	7.1	8.5	9.9	14.1	21.2	28.3
600	1.5	3.1	4.6	6.2	7.7	9.3	10.8	15.4	23.1	30.8
700	1.8	3.6	5.4	7.2	9.0	10.8	12.6	18.0	27.0	36.0
800	2.1	4.1	6.2	8.2	10.3	12.3	14.4	20.6	30.8	41.1
900	2.3	4.6	6.9	9.3	11.6	13.9	16.2	23.1	34.7	46.3
1000	2.6	5.1	7.7	10.3	12.9	15.4	18.0	25.7	38.6	51.4



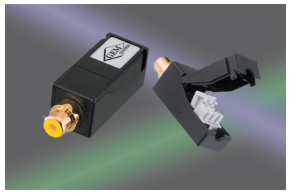
BLN-VPDRJ45
Passive Video Balun With Separate Data & Power Leads To RJ45 Jack



BLN-BNCJ
BNC Jack To RJ45 Jack



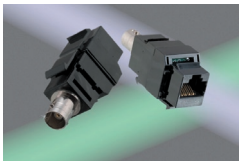
BLN-RCARJ45
RCA Jack To RJ45 Jack



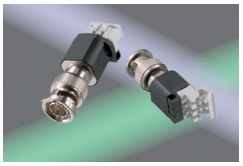
BLN-RCATL
RCA Jack To Toolless

CCTV

VIDEO BALUN



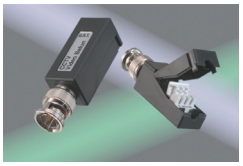
BLN-BNCJKS
BNC Jack To RJ45 Jack
Keystone Type



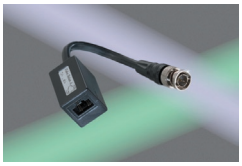
BLN-MTL
BNC Plug To Toolless
Mini-Type



BLN-RJ45
BNC Plug To RJ45 Jack



BLN-TL
BNC Plug To Toolless



BLN-RJ45PT
BNC Plug To RJ45 Jack
6 Inch Pigtail



BLN-RCAJKS
RCA Jack To RJ45 Jack
Keystone Type

CCTV BALUN

Power-thru Type Video and Power (Lead Free)



The **CCTV Power-thru Balun** provides the transmission of video signals and remote power via a single UTP (unshielded twisted pair) cable for more versatile cabling. The CCTV Power-thru Balun is used in pairs that allow you to eliminate more expensive coaxial cable, which include coupling signals from remote video cameras to display systems, video capture, security and surveilance monitoring applications.

The use of existing twisted pair infrastructure (such as telephone cable and cat. 5 computer networking cables) is also available. All of our Baluns are tested 100% for reliability and durability to gaurantee your signal integrity.

Part Number: BLN-PVRJ45

Specification	
Bandwidth	Video DC to 8MHz
Maximum input	1.0Vp-p
Impedance	75 ohm to 100 ohm (or 75ohm to 120ohm on request)
Insertion loss	Max. 2dB per pair over the frequency range from DC to 8MHz
Return loss	Greater than 15dB over the frequency range from DC to 8MHz
Common mode rejection	Greater than 40dB at 8MHz
Environment	Close-Circuit TV (CCTV) equipment for security and surveillance.
Devices	CCTV cameras, monitors, switchers, sequencers, multiplexers, digital video, recorders (DVR) and other CCTV equipment.
Connectors	RJ45 jack, BNC Male
Cable-UTP	Cat. 5 or better - 100 ohms at 1MHz Max. capacitance :20pf/ft Attenuation: 6.6dB/1000ft at 1MHz
Cable-BNC	Impedance : 75 ohms at 1MHz(RG59/U) Max. 25ft. of coax allowed per end to end link
Max. distance	**Color:** Cat.5 2230ft (680 Meter) - **Monochrome:** Cat.5 2550ft (780 Meter)
Environment required	Operating temp. 0 to 55° C - Storage temp. -22 to 85°C - Humidity up to 95%
Dimension	33.0x21.0x24.2mm
Max. Distance @ 24VAC via three pairs of an UTP Cat 5 cable (24 AWG):	5VA: 519ft (170m), 10VA: 258ft (85m) - 20VA: 130ft (43m), 30VA: 86ft (28m) Based on 10% voltage drop at camera. Longer distance may be achieved @ 28VAC
Maximum input voltage:	50Volts (AC RMS/DC)
Maximum current Rating:	4.5A (AC RMS/DC)

CATV BALUN

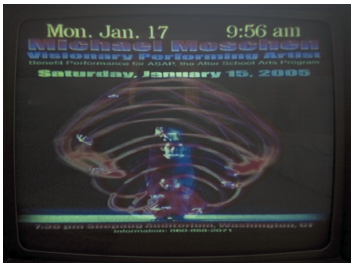
The CATV Balun allows traditional 75 Ohm coaxial cable to be replaced by one-pair UTP in the CATV, VHF and FM video signal. The CATV balun saves the extra cost of expensive and space-consuming coax cable and can connect RF Video equipment to TV, monitors...etc. shortly.

Specifications

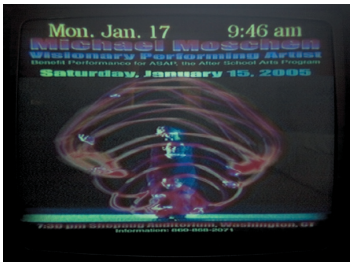
- **Bandwidth: 5 MHz to 862 MHz**
- **Common Rejection: -20dB or higher at 40 MHz - 862 MHz**
- **Distance (max.): 100 M via Cat. 5 UTP**
- **Insertion loss: CATV channels 2 - 61 ≤ 3 dB**
- **Return loss: -18 dB or higher at 10 - 862 MHz**

Superior Picture Up To 300 Feet

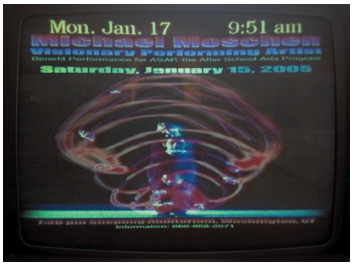
ACTUAL PHOTOS



Direct RG59 Hook-up



300 Feet Cat. 6
With 2 BLN-CATVF

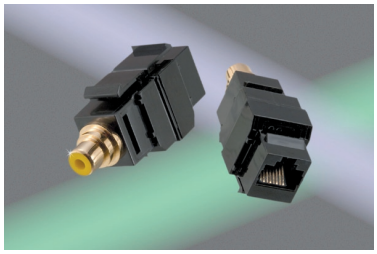


300 Feet Cat. 5E
With 2 BLN-CATVF

Products



BLN-CATVF
F Plug To RJ45 Jack



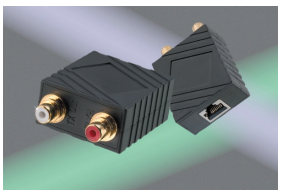
BLN-CATVRCAKS
RCA Jack To RJ45 Jack
Keystone type

RCA
AUDIO BALUN

This RCA audio balun is ideal for corporate A/V, schools, home theater and most of any other situation involving structured audio distribution and transmits dual mono or single stereo audio signals via Cat. 5/6 UTP cable. This balun provides a low cost and versatile cabling solution to any audio distribution.

Specifications

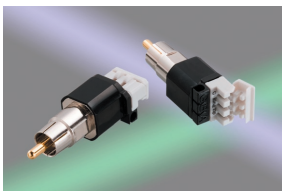
- **Bandwidth:** 10 Hz to 50 KHz + / -3 dB
- **Impedance:** 600 : 600 Ohms, unbalanced to balanced
- **Connectors:** Two RCA to one RJ45
- **Dimensions:** 49.2 x 43.0 x 21.5 mm
- **Distance (max.):** 2500 feet (Cat. 6)
- **Isolation:** 500 V
- **Nominal Level:** 1.0 volts
- **Insertion Loss:** ≤ 1 dB
- **Common Mode Rejection:** Greater than 40 dB
- **Cable:** UTP: 24 gauge or lower solid copper
  UTP: Impedance: 100 Ohms at 1 MHz
  Maximum capacitance: 2 p pf / ft
  Attenuation: 6.6 dB / 100 ft at 11 MHz
- **Pin out:** Left: 3 & 6, pair 3 - Right: 1 & 2, pair 2
- **Temperature:** Operating: 0 to 55º C - Storage: -20 to 85º C
  Humidity: up to 95%



BLN-AV2RCA
2 RCA Jacks
To RJ45 Jack



TRB-4RCAPT
4 RCA Plugs
With 24 Inch Pigtail
To RJ45 Jack

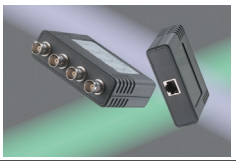
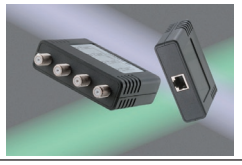


BLN-RCAMTL
RCA Plug
To Toolless Mini-Type

CCTV

TRANSCEIVER BOX

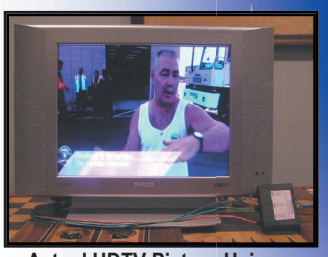
The Transceiver box allows transmission of 3-4 sets real time color or monochrome video signal UTP to 600 meters over industry Cat. 5 UTP networking cable. This transceiver box is designed for small CCTV installations where size and space are restricted.

 **BLN-AV3R** **3RCA Jacks To RJ45 Jack**	• Bandwidth: Video DC to 8 MHz - Audio 20 Hz to 50 KHz • Insertion Loss: ≤ 2 dB over the frequency range from DC to 8 MHz • Return Loss: ≥ 15 dB over the frequency range from DC to 8 MHz • Common Mode Rejection: ≥ 40 dB at 8 MHz • Impedance: RCA side 75 Ohms (Video) 600 Ohms (Audio) • Cable: UTP: 24 gauge or lower solid copper twisted pair wire - Impedance: 100 Ohms at 1 MHz Max. Capacitance: 20 pf / ft - Attenuation: 6.6 dB / 1000 ft at 1 MHz • Transmission Distance: 500 feet (Cat. 5 UTP) • Housing: 81x60x24 mm
 **BLN-AV2R1B** **2 RCA Jacks, 1 BNC Jack To RJ45 Jack**	• Bandwidth: Video DC to 8 MHz - Audio 20 Hz to 50 KHz • Insertion Loss: ≤ 2 dB over the frequency range from DC to 8 MHz • Return Loss: ≥ 15 dB over the frequency range from DC to 8 MHz • Common Mode Rejection: ≥ 40 dB at 8 MHz • Impedance: BNC side 75 Ohms (Video) RCA side 600 Ohms (Audio) • Cable: UTP: 24 gauge or lower solid copper twisted pair wire - Impedance: 100 Ohms at 1 MHz Max. Capacitance: 20 pf / ft - Attenuation: 6.6 dB / 1000 ft at 1 MHz • Transmission Distance: 2200 feet (Cat. 5 UTP) • Housing: 81x60x24 mm
 **TRB-4BNC** **4 BNC Jacks To RJ45 Jack**	• Bandwidth: Video DC to 8 MHz • Insertion Loss: ≤ 2 dB over the frequency range from DC to 8 MHz • Return Loss: ≥ 15 dB over the frequency range from DC to 8 MHz • Common Mode Rejection: ≥ 40 dB at 8 MHz • Impedance: 75 Ohms • Cable: UTP: 24 gauge or lower solid copper twisted pair wire - Impedance: 100 Ohms at 1 MHz Max. Capacitance: 20 pf / ft - Attenuation: 6.6 dB / 1000 ft at 1 MHz • Transmission Distance: 2200 feet (Cat. 5 UTP) • Housing: 81x60x24 mm
 **TRB-4BNCPT** **4 BNC Plugs With 24 Inch Pigtail To RJ45 Jack**	• Bandwidth: Video DC to 8 MHz • Insertion Loss: ≤ 2 dB over the frequency range from DC to 8 MHz • Return Loss: ≥ 15 dB over the frequency range from DC to 8 MHz • Common Mode Rejection: ≥ 40 dB at 8 MHz • Impedance: 75 Ohms • Cable: UTP: 24 gauge or lower solid copper twisted pair wire - Impedance: 100 Ohms at 1 MHz Max. Capacitance: 20 pf / ft - Attenuation: 6.6 dB / 1000 ft at 1 MHz • Transmission Distance: 2200 feet (Cat. 5 UTP) • Housing: 81x60x24 mm
 **TRB-4F** **4 F Jacks To 1 RJ45 Jack**	• Bandwidth: Video DC to 8 MHz • Insertion Loss: ≤ 2 dB over the frequency range from DC to 8 MHz • Return Loss: ≥ 15 dB over the frequency range from DC to 8 MHz • Common Mode Rejection: ≥ 40 dB at 8 MHz • Impedance: 75 Ohms • Cable: UTP: 24 gauge or lower solid copper twisted pair wire - Impedance: 100 Ohms at 1 MHz Max. Capacitance: 20 pf / ft - Attenuation: 6.6 dB / 1000 ft at 1 MHz • Transmission Distance: 2200 feet (Cat. 5 UTP) • Housing: 81x60x24 mm
 **TRB-4RJ45** **4 Rj45 Jacks To RJ45 Jack**	• Housing: ABS, Halogen Free UL 94V-0 104x43.5x27 mm • Jack: a. Housing: PBT, Halogen Free UL94V-0, Black color b. Contact: Ø 0.46 mm Phosphor Bronze 50µ Gold over 100µ Nickel plating c. Shield: 0.25 mm Thickness Stainless Steel, 80µ Tin Plating • PCB: 1.6 mm Thickness FR4 • Attachment: a. Wiring Label b. Double-sided Adhesive Tape

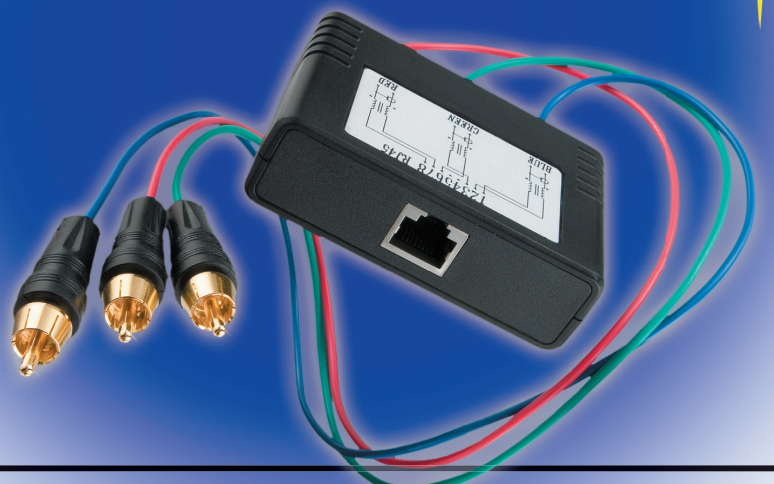
NEW

RGB Baluns For Component Video Applications

Gem's Video Balun allows one component video (YPbPr or RGB) signal to be transmitted via one Category 5 shielded twisted pair cable for more cost-effective cabling.
Used in pairs, the Component Video Balun supports 480i/p, 720p and 1080i/p video formats for hi-definition (HDTV) video applications.



Actual HDTV Picture Using Gem Balun



Part Number TRB-RGBPT With Three 24 inch pigtails and RCA Plugs

Part Number TRB-RGB With Three RCA Jacks



SPECIFICATIONS	
Environment	Component analog RGB/YPbPr video with synchronization signals on one of the color signals (i.e. synch-on-green).
Devices	RGB projectors, monitors, matrix switchers, media walls, splitters, mixers, scan converters, video scalers and other RGB/YPbPr equipment that supports sync-on-green via three (3) coaxial cable.
Transmission	Transparent to the user.
Bandwidth	Video: DC to 8 MHz (480I and 480p only).
Maximum Video Input	1.1 Vp-p.
Insertion Loss	Less than 2 dB per pair over the frequency range from DC to 8 MHz.
Return Loss	Greater than 15 dB over the frequency range from DC to 8 MHz.
Maximum Distance – Color Video	Category 5 UTP – 520 feet.
Cable – UTP	24 gauge or lower solid copper twisted pair wire. Impedance: 100 ohms at 1 MHz maximum. Capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 feet at 1 MHz.
Connectors – TRB-RGB, TRB-RGBPT	Three (3) RCA Female; One (1) RJ45 Jack; Three (3) RCA males with pigtail; One (1) RJ45 Jack.
Pin Configuration	Red (Pr): Pins 7& 8 - Green (Y): Pins 3 & 6, - Blue (Pb): Pins 1 & 2.
Impedance	75 Ohms (RCA) unbalanced.
Temperature	Operating: 0 to 55 C. - Storage: -20 to 85 C. - Humidity: up to 95%.
Enclosure	Fire retardant plastic.
Dimensions	81x60x24mm.
Housing	Black ABS.
Weight	(70 grams).

Component Video Balun



Part Number:
TRB-RGBPTDA

With Digital Audio

RGB Balun with Digital Audio to RJ45

The **Component Video Balun** with Digital Audio provides transmission of one component video (YPbPr or RGB) signal and one Digital Audio signal via one UTP (Unshielded twisted pair) cable for more versatile cabling.

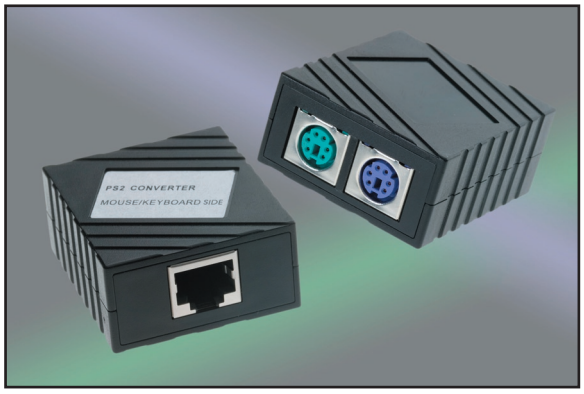
The Component Video Balun is used in pairs to allow you to eliminate more expensive coaxial cable. The Component Video Balun with Digital Audio works for the 480i/p, 720p and 1080i/p video formats for hi-definition (HDTV) video.

All of our Baluns are tested 100% for realiability and durability to guarentee your signal integrity.

Specification	
Bandwidth	**Video:** DC to 60 MHz(3dB roll off) - **Digital Audio:** 25 MHz(1dB roll off)
Insertion Loss	**Video:** -2.5 dB over the frequency range - **Audio:** -1 dB over the frequency range
Return loss	**Video:** -15 dB typical over the frequency range - -15 dB typical over the frequency range
Common Mode Rejection	**Video:** -55 dB - **Audio:** -55 dB
Impedance	75 ohms
Environment	Component analogue RGB/YPbPr video with synchronization signals on one of the color signals (i.e. synch-on-green)
Devices	DVD players, projectors, monitors, amplifiers, switches, plasma displays, home theatre and other equipment supporting HDTV component video and digital audio
Maximum Video Input	1.1Vp-p
Connectors	Three RCA Male with 6" cable (Red, Green, Blue) - One RCA Female (Black) for Digital Audio, One RJ45 Shielded Jack
Cable-UTP	Cat.5 or better - Wires impedance 100ohm at 1MHz - Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz
Max. distance Cat 5 UTP or better	**Video:** 480i/p: 1000 ft.(305M) 720p and 1080i: 500 ft (152M) - **Digital Audio:** 600 ft (182M)
Pin Configuration	Red (Pr): Pins 7+ & 8- Green (Y): Pins 6+ & 3- Blue (Pb): Pins 2+ & 1- **Digital Audio:** Pins 5+ & 4-
Environment required	Operating: 0 to 55 C. Storage:-20 to 85 C. Humidity: up to 95%
Dimension	81x60x24 in mm

PS/2 Converter

For Keyboard And Mouse



Part Number:
Mini DIN Receptacle — PS2-KBMS



Part Number:
Mini DIN Plug — PS2-PCS

The **PS/2 Coverter** for Keyboard and Mouse provides the connection of standard PS/2 Keyboard and Mouse to PC via one UTP (Unshielded twisted pair) cable for more versatile cabling. The PS/2 Converter is used in pairs for long distance cabling flexability.

Typical applications include corporate projection systems, classroom video instruction and video information systems. All of our Baluns are tested 100% for realiabliity and durability to gaurantee your signal integrity.

Specification	
Environment	PS/2 Keyboard and Mouse
Devices	PC, Laptops, PS/2 Keyboard and Mouse
Bandwidth	DC to 1 MHz
Connectors	RJ45 Jack PS2-PCS: Dual Mini Din Plug (Connects to PC End; Green for Mouse, purple for Keyboard) ,6" lead PS2-KBMS: Dual Mini Din Receptacle (Connects to PS/2 Keyboard and Mouse; Green for Mouse, purple for Keyboard)
Cable-UTP	Cat 5 or better. wires impedance 100ohm at 1MHz Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz
Max. distance	Cat 5. 350 ft (110M)
Pin Configuration (Reverse Polarity Sensitive)	MINI DIN: Pin1-- Data, Pin3-- Gnd, Pin4-- +5V, Pin5-- Clock RJ45: Mouse: Pin1-- Gnd, Pin2-- Clock, Pin3-- +5V, Pin6—Data Key Board: Pin8-- Gnd, Pin7-- Clock, Pin5-- +5V, Pin4—Data
Environment required	Operating: 0 to 55 C. Storage:-20 to 85 C. Humidity: up to 95%
Dimension	PS2-PCS: 33.0x21.0x24.2mm - PS2-KBMS: 49.2x43.0x21.5mm

Ground Loop Isolator & VGA Baluns



Video Ground Loop Isolator
Part Number: GLI-BNCPJ

The **Video Ground Loop Isolator GLI-BNCPJ** is a necessary part of every CCTV set-up, providing improved security from troublesome ground loop distortion. Installation of the Video Ground Loop Isolator rescues you from the irritation of tearing apart your setup as you search for the source of irritating signal disturbances such as those caused by loops or wiring laid too near power lines. The product also provides for better surge protection, while convenience of installation means the Video Ground Loop Isolator is easily added to previously existing operation.

Specifications Video Ground Loop Isolator	
Connector – GEM Part Number: GLI-BNCPJ	Male BNC to Female BNC
Insertion Loss	0.5dB
Frequency Response	0 — 3dB at 10MHz
Input Resistance	75 Ohm
Output Resistance	75 Ohm
Isolation Voltage	600VDC (Min)
Insulation Resistance	100m Ohm
Transient Voltage Suppressors	12 Vrms
Material	ABS Black
Dimension	3.09 x 1.15 x 0.96" (78.6 x 29.4 x 24.4mm)

MUST USE SHIELDED CAT5 AND CONNECTORS

VGA Balun
Part Number: BLN-VGAPCS

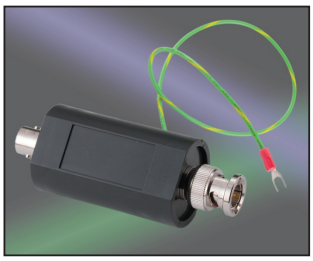


Specifications VGA Balun	
Environment	VGA. VESA VP&D 1.0, VIP ver 2.0
Devices	CRT & flat-screen LCD monitors, plasma screens, laptops, PCs, multimedia projectors
Transmission	Transparent to the user
Bandwidth	DC to 60MHz
Input Signals	Video: 1.1Vp-p Horizontal sync: TTL standard — 300Hz max. bandwidth Vertical sync: TTL standard — 300kHZ max. bandwidth
Insertion Loss	Less than 3dB per pair over the frequency range
Common Mode Rejection (CMMR)	**15kHz** – 60dB max. **100kHz** to **10MHz** – 40dB max. **100MHz** – 20dB max.
Video Signal Return Loss	-15dB max. from DC to 60MHz
Video Differential Gain	± 2%
Video Differential Phase	± 2%
Connectors	RJ45 shielded BLN-VGAPCS: DB15 HD Plug (Connects to VGA output of PC), 6" lead BLN-VGAMS: DB15 HD Receptacle (Connects to VGA monitor input)
Max. Distance via Cat 5 Twisted Pair	VGA: 640 x 480 pixels (15MHz) 450 ft. (137m) SVGA: 800 x 600 pixels (30MHz) 350 ft. (107m) XGA: 1024 x 768 pixels (60MHz) 250 ft. (76m) SXGA: 1280 x 1024 pixels (100MHz) 200 ft. (61m)
RJ45 Pin Configuration Reverse Polarity Sensitive	R Video: (Red) Pin 1 (+) Pin 2 (-) Balanced G Video: (Green) Pin 4 (+) Pin 5 (-) Balanced B Video: (Blue) Pin 7 (+) Pin 8 (-) Balanced Horizontal Sync: Pin 3 — Vertical Sync: Pin 6 — Horizontal & Vertical Sync Return: STP cable: Shield — UTP cable: Not connected +5VDC Not connected - IDO Not connected - SDA Not connected - SCL Not connected
Cable	Cat 5 shielded twisted pair (STP) is recommended. Unshielded twisted pair (UTP) may be used when there is full signal ground continuity between the VGA source & the VGA display.
Impedance	Input: RGB 75 Ohms (DB15 HD) Unbalanced Output: RGB 100 Ohms (RJ45 shielded) Balanced Horizontal & vertical sync: TTL standard
Temperature	Operating: 0 to 55 C. Storage: -20 to 85 C. Humidity: up to 95% non-cond.
Enclosure	ABS fire retardant plastic
Dimensions	1.93" x 1.69" x 0.84" (49.2 x 43.0 x 21.5mm) plus 6" cable lead for video
Mounting	Free-standing. Separate Velcro mounting pad included
Order Information	BLN-VGAPCS BLN-VGAMS

VGA Balun
Part Number: BLN-VGAMS



Surge Protector & S-Video Baluns



Surge Protector
Part Numbers:
SP-BNCPJ
SP-BNCJJ
SP-FPJ
SP-FJJ
SP-RJ45JJ

This series of **Video Surge Protectors** help prevent damage to sensitive electronic equipment due to differences in ground potential, power surges and area lightning strikes. Easily installed between the coax video cable and equipment connection jack, our surge protectors intercept repeated surges and ground them along a twisted conductive wire without any loss of signal quality. These products offer a combined surge handling capacity of 3,000 watts.

Surge Protector Specifications	
DC Spark-Over Voltage	90V typical at 100V/sec.
Impulse Spark-Over Voltage	700V at 1KV/usec.
Surge Resistance	10 Ohms typical
Impulse Discharge Current	10KA at 8*20 µsec. (Short Wave) 100A at 10*1000 µsec. (Long Wave)
Insertion Loss	Less than 2dB
Return Loss	18 dB, 75 Ohms
Connector	SP-BNCPJ - BNC Connector Male to Female SP-BNCJJ - BNC Connector Female to Female SP-FPJ - F Connector Male to Female SP-FJJ – F Connector Female to Female SP-RJ45JJ – RJ45 Connector Female to Female
Dimensions W x D x H	78.6 x 29.4 x 24.4mm for F & BNC Connector 51.2 x 29.4 x 24.4mm for RJ45 Connector

S- Video LR-Audio
Part Number: BLN-SVLRA

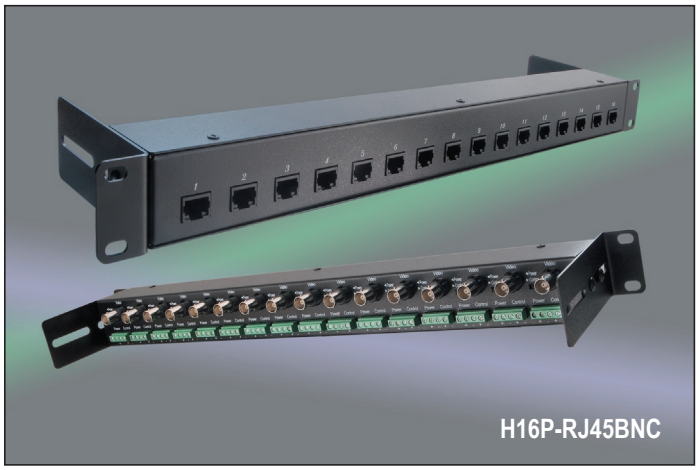


S- Video
Part Number: BLN-SV



S- Video Balun Specifications	
Environment	S-Video equipment
Devices	DVD players, VCR, satellite receivers, MPEG players, laptops, notebooks, monitors, LCD projectors, CCD cameras, video switchers, sequencers, digital video servers, video multiplexers, S-Video splitters, S-Video converters & other S-Video equipment
Bandwidth	Video: DC to 6MHz Audio: 600 Ohms: 73Hz to 156kHz @ 1,000 ft. 1.2k Ohms: 128Hz to 91kHz @ 1,000 ft.
Maximum Video Input	1.1 Vp-p
Insertion Loss	Video: Less than 2dB per pair over the frequency range from DC to 6MHz Audio: 600 Ohms: <3dB per pair: 1.2k Ohms: <1.9dB per pair
Return Loss	Greater than 13dB over the frequency range from DC to 8MHz
Common Mode Rejection	Greater than 40dB over the frequency range
Maximum Distance	Color Video: 1,000 ft. (305m) Audio: 5,000 ft. (1525m)
Cable – UTP	24 AWG or lower solid copper twisted pair wire Impedance: 100 Ohms at 1MHz — Max. Capacitance: 20 pf/foot. — Attenuation: 6.6dB/1000 ft. at 1MHz
Connectors	BLN-SVLRA: One (1) 4-Pin Mini DIN, two (2) RCA audio jacks & one (1) RJ45 — BLN-SV: One (1) 4-Pin Mini DIN, one (1) RJ45
Pin Configuration	S-Video Luma: Pins 8 (R) & 7 (T) S-Video Chroma: Pins 4 (R) & 5 (T) Audio White: Pins 3 (R) & 6 (T) Audio Red: Pins 1 (R) & 2 (T)
Impedance	Video: 75 Ohms (RCA) unbalanced Audio: 600 Ohms (RCA) unbalanced
Temperature	Operating: 0 to 55 C. Storage: -20 to 85 C Humidity: up to 95%
Dimensions	81 x 60 x 24.5 mm
Housing	Black ABS

CCTV Patch Panel



The **CCTV Patch Panel** allows the transmission of video signals, remote power and Data (control) via a single UTP (unshielded twisted pair) cable for more versatile cabling. It allows you to eliminate more expensive coaxial cable, including coupling signals from remote video cameras to display systems, video capture, security and surveillance monitoring applications.

The modular construction allows the conjunction with GEM's CCTV Baluns standard type, keystone type, toolless IDC with cover type, power thru and Data (control) thru. This modular provides cost effective solutions, as well advantages to installation.

Specification

Environment	Close-Circuit TV (CCTV) equipment for security and surveillance.	
Devices	CCTV cameras, monitors, digital video recorders (DVR) and other CCTV equipment.	
Cable-UTP	Cat 5 or better: AWG# 24 Typically — Maximum Capacitance: 20pf/foot — Attenuation: 6.6dB/1000 ft at 1MHz	
Cable-Coax	Impedance: 75 ohms at 1MHz(RG59/U) — Max. 25ft. of coax allowed per end to end link	
Connectors: **H16P-RJ45BNC**	**Video:** BNC x 16 — **Power and control:** 4-pole screw terminals — RJ45 Jack(8P8C) x 16	
Switches	Switching pair 4/5 between power thru and data (control) thru mode x16	
RJ45 Pin Configuration	**Switch at power**	**Switch at control**
	Video: 7+/8- Power: 1,3,5+/2,4,6-	**Video: 7+/8-** Power: 1,3+/2,6- Data, PTZ Control: 4+/5-
Environment required	**Operating temp.** 0 to 55° C — **Storage temp.** -22 to 85°C — Humidity up to 95%	

Bandwidth	DC to 8 MHz
Maximum Input	1.0 Vp-p
Insertion Loss	Max. 2dB per pair over the frequency range from DC to 8MHz
Return Loss	Greater than 15dB over the frequency range from DC to 8MHz
Common Mode Rejection	Greater than 40dB at 8MHz
Max. distance	**Color:** Cat.5 2230ft (680 Meter) — **Monochrome:** Cat.5 2550ft (780 Meter)

Remote Power

Switch position	**Switch at Power**	**Switch at control**
Max. Distance @ 24Vac via an UTP Cat 5 cable (24 AWG): Based on 10% voltage drop at camera. Longer distance may be achieved @ 28Vac	5VA: 519ft (170m), 10VA: 258ft (85m) 20VA: 130ft (43m) 30VA: 86ft (28m)	5VA: 345ft (115m) 10VA: 171ft (57m) 20VA: 87ft (29m) 30VA: 54ft (18m)
Maximum input voltage:	50Vdc/ac	
Maximum current Rating:	4.5A	

2-Wire PTZ Control (RS-422, RS485 etc.)

Wiring	Remote 2 wire PTZ control signal via one pair of UTP
Maximum Distance	Up to 4,000 ft (1.2 km) depending on the PTZ camera vendor
Maximum Power Rating	50 Vdc/ac, 3A

CCTV Patch Panel

Switches Setting

1. **Turn off the power supply priors to switches setting.**
2. User must make sure the wirings of PTZ control signals had been removed before setting the switch to POWER mode. Oppositely, you must set the switch to DATA mode before wiring the PTZ control signals. It's very dangerous to set the switches while power is ON.
3. Switches are not used when only transmitting video signal, then power/control screw terminals may not be required to regard for. Use GEM BLN-TL or BLN-RJ45 at camera side, H16P-RJ45BNC at equipment side.
4. For transmitting video signal via one twisted pair, remote power via two twisted pairs and Data/ PTZ Control via one twisted pair, set the switches as figure 1 shown. Use GEM BLN-VDPRJ45 at the camera side, H16P-RJ45BNC.

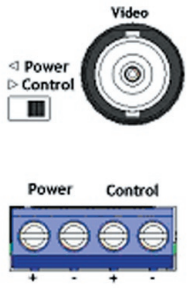


Figure 1: Data (Control) thru Mode

5. For transmitting video signal via one twisted pair, and remote power via three twisted pairs, set the switches as figure 2 shown. Use GEM BLN-PVRJ45 at the camera side, H16P-RJ45BNC at equipment side.

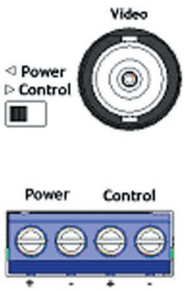
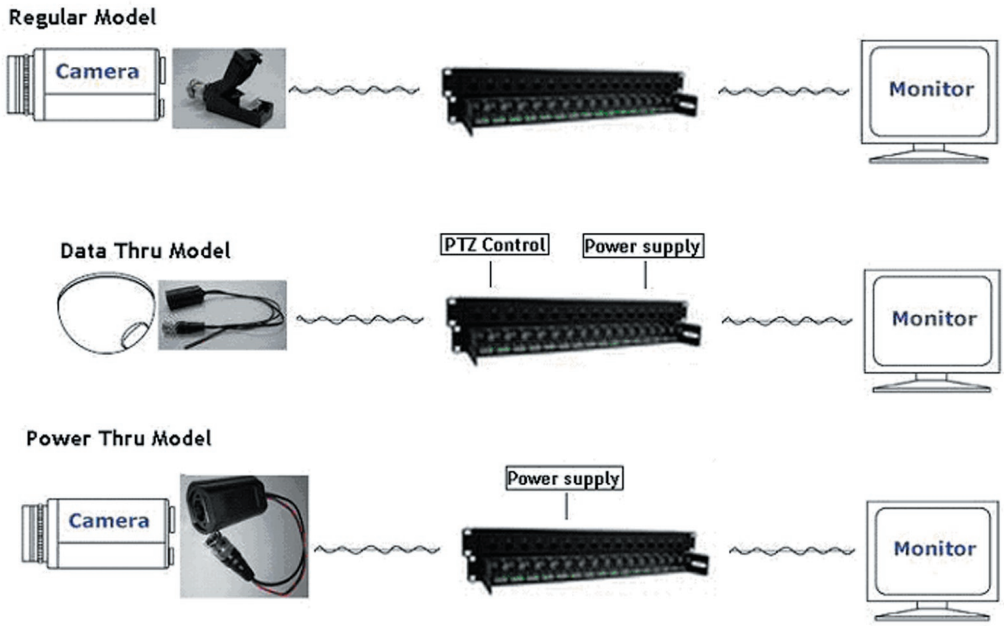


Figure 2: Power thru Mode

Application:



CCTV Patch Panel


H16P-STRJ45


H16P-RJ45

The **CCTV Patch Panel** allows the transmission of video signals, remote power and Data (control) via a single UTP (unshielded twisted pair) cable for more versatile cabling. It allows you to eliminate more expensive coaxial cable, including coupling signals from remote video cameras to display systems, video capture, security and surveillance monitoring applications.

The modular construction allows the conjunction with other CCTV Baluns - standard type, keystone type, toolless IDC with cover type, power thru and Data (control) thru. This modular provides cost effective solutions, as well advantages to installation.

Features:

1. Switches for convert the power thru mode or data (control) thru mode
2. Low profile design
3. Mounts in standard 19" Rack

Specification:

Environment	Close-Circuit TV (CCTV) equipment for security and surveillance.	
Devices	CCTV cameras, monitors, digital video recorders (DVR) and other CCTV equipment.	
Cable-UTP	Cat 5 or better: AWG# 24 Typical — **Maximum Capacitance:** 20pf/foot — **Attenuation:** 6.6dB/1000 ft at 1MHz	
Connectors: H16P-STRJ45	**Video:** 2-pole screw terminals x 16 — **Power and control:** 4-pole screw terminals x 16 — RJ45 Jack(8P8C) x 16	
Connectors: H16P-RJ45	**Video:** RJ45 Jack x 16 — **Power and control:** 4-pole screw terminals x 16 — RJ45 Jack(8P8C) x 16	
Switches	Switching pair 4/5 between power thru and data (control) thru mode x16	
RJ45 Pin Configuration	**Switch at power**	**Switch at control**
	Video: 7+/8- Power: 1,3,5+/2,4,6-	**Video: 7+/8-** Power: 1,3+/2,6- Data, PTZ Control: 4+/5-
Environment required	**Operating temp.** 0 to 55° C **Storage temp.** -22 to 85°C — Humidity up to 95%	

Remote Power: (ie: 24Vac, 28Vac)

Switch position	Switch at Power	Switch at control
Max. Distance @ 24Vac via an UTP Cat 5 cable (24 AWG): Based on 10% voltage drop at camera. Longer distance may be achieved @ 28Vac	5VA: 519ft (170m), 10VA: 258ft (85m) 20VA: 130ft (43m) 30VA: 86ft (28m)	5VA: 345ft (115m) 10VA: 171ft (57m) 20VA: 87ft (29m), 30VA: 54ft (18m)
Maximum input voltage:	50Vdc/ac	
Maximum current Rating:	4.5A	

2-Wire PTZ Control (RS-422, RS485 etc.)

Wiring	Remote 2 wire PTZ control signal via one pair of UTP
Maximum Distance	Up to 4,000 ft (1.2 km) depending on the PTZ camera vendor
Maximum Power Rating	50 Vdc/ac, 3A

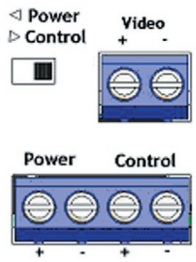
Switches Setting

1. **Turn off the power supply priors to switches setting.**
2. User must make sure the wirings of PTZ control signals had been removed before setting the switch to POWER mode. Oppositely, you must set the switch to DATA mode before wiring the PTZ control signals. It's very dangerous to set the switches while power is ON.
3. Switches are not used when only transmitting video signal, then power/control screw terminals may not be required to regard for. Use GEM BLN-TL or BLN-RJ45 at camera side, H16P-STRJ45 (H16P-RJ45) at equipment side and BLN-TL or BLN-RJ45 at monitor side.
4. For transmitting video signal via one twisted pair, remote power via two twisted pairs and Data/ PTZ Control via one twisted pair, set the switches as figure 1 shown. Use GEM BLN-VDPRJ45 at the camera side, H16P-STRJ45 (H16P-RJ45) at equipment side and BLN-TL or BLN-RJ45 at monitor side.

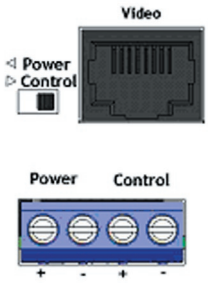
CCTV Patch Panel

Figure 1: Data (Control) thru Mode

5. For transmitting video signal via one twisted pair, and remote power via three twisted pairs, set the switches as figure 2 shown. Use GEM BLN-PVRJ45 at the camera side, H16P-STRJ45 or H16P-RJ45 at equipment side and BLN-TL or BLN-RJ45 at monitor side.

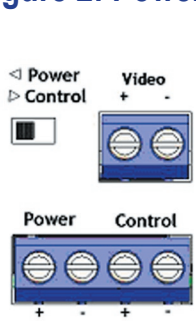


H16P- STRJ45

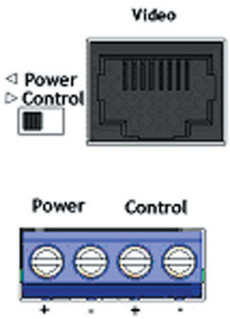


H16P-RJ45

Figure 2: Power thru Mode

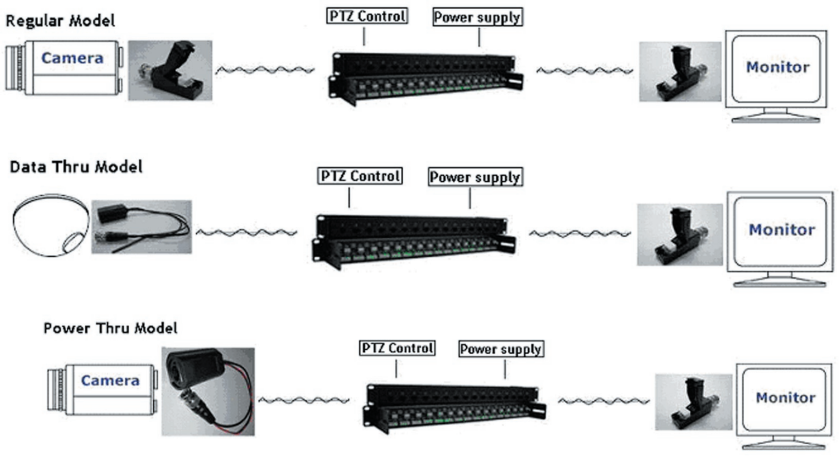


H16P- STRJ45

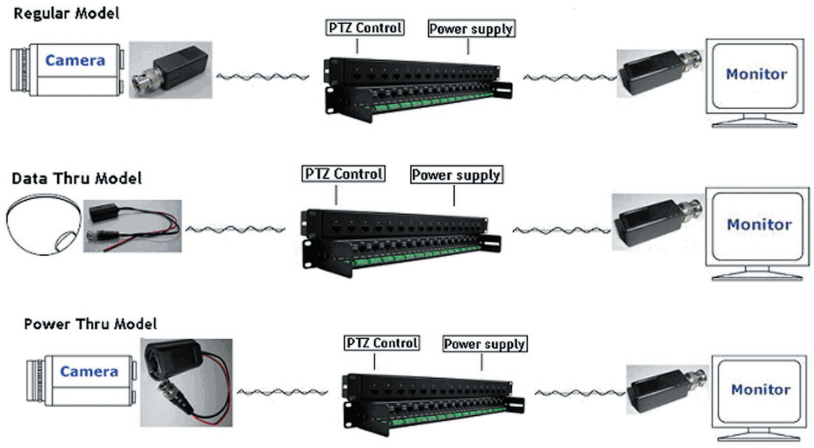


H16P-RJ45

Application H16P-STRJ45:



Application H16P-RJ45:



Active Video Balun

Part Number: BLN-AR Receiver
BLN-AT Transmitter

Receiver Specifications



BLN-AR

Brightness and Sharpness Control :	Adjustable
Power Required	12-24 VAC/DC 250mA min
Power On	Blue Indicator Light
Video Signal	Green Indicator Light
Network Wiring	UTP AWG #16~24 (1.3-0.5 mm) Category Type : Cat 2 or better Impedance : 100 ohms
Transmissive Distance	5,500ft. (1.7Km) when used with BLN-AT active transmitter and Cat.2 or 3 8,200ft. (2.5Km) When used with BLN-AT active transmitter and Cat.5 or better
Temperature	0° to +50° C
Humidity (non-condensing)	0 to 95%
Dimensions excluding BNC	3.0 x 1.6 x 1.1 in (75.6 x 40.9 x 27.1 mm)
Weight	100 g
Material	Black ABS

Receiver Electrical Characteristic & Performance

Frequency Response	DC to 5 MHz
Common-mode/ Differential-mode Rejection	60 dB typ. at 15KHz to 5 MHz
Impedance	Coax, female BNC 75 ohms UTP, Terminal Block 100 ohms
DC Loop Resistance	52 ohms per 1,000 ft (18 ohms per 100 m) for Cat.5 AWG#24
Differential Capacitance	19 pF/ft max (62 pF/m max)

Transmitter Specifications



BLN-AT

Distance Switch	3-Position, "L" for distance less or equal to 1,650ft. (500m) "M" for or distance between 1,650ft. to 3,300ft. (500~1000m) "H" for or distance longer than 3,300ft. (1000m)
Power Required	24 VAC/DC 250mA min May share 24 VAC power with camera.
Power On	Blue Indicator Light
Video Signal	Green Indicator Light
Network Wiring	Unshielded Twisted Pair, AWG #16~24 (1.3-0.5 mm) Category Type : Cat 2 or better Impedance : 100 ohms
Transmissive Distance	5,500ft. (1.7Km) When used with BLN-AT active transmitter and Cat.2 or 3 8,200ft. (2.5Km) When used with BLN-AT active transmitter and Cat.5 or better
Temperature	0° to +50° C
Humidity (non-condensing)	0 to 95%
Dimensions excluding BNC	3.0 x 1.6 x 1.1 in (75.6 x 40.9 x 27.1 mm)
Weight	100 g
Material	Black ABS

Transmitter Electrical Characteristic & Performance

Frequency Response	DC to 5 MHz
Common-mode/ Differential-mode Rejection	60 dB typ. at 15KHz to 5 MHz
Impedance	Coax, female BNC 75 ohms UTP, Terminal Block 100 ohms
DC Loop Resistance	52 ohms per 1,000 ft (18 ohms per 100 m) for Cat.5 AWG#24
Differential Capacitance	19 pF/ft max (62 pF/m max)

Active Video Balun With Audio

Part Number: BLN-ARAV Receiver With Audio For 2 Monitor
BLN-ATAV Transmitter With Audio

Receiver With Audio Specifications



BLN-ARAV

Brightness and Sharpness control	Adjustable
Power Required	24 VAC/DC, 250m A min.
Power On	Blue Led Indicator
Network Wiring	Terminal Block: UTP, AWG#16 - #24 (1.3-0.5mm) RJ45 Jack: UTP, AWG#24 (0.5mm) Category Type: Cat 2 or better Impedance: 100 ohms
Temperature	0°to +50 °
Humidity(non-condensing)	0° to 95°
Dimensions excluding BNC	3.2 x 2.4 x 0.9 in (81x 60 x 24mm)
Weight	100 g
Material	Black ABS

Receiver With Audio Electrical Characteristic & Performance

Frequency Response	DC to 5 MHz
Common-mode/ Differential-mode Rejection	60 Db typ. at 15 KHz to 5 MHz
Impedance	Coax, Female BNC 75 ohms UTP, Terminal Block 100 ohms Coax, Female RCA 600 ohms
Differential Capacitance	19 pF/ft max (62 pF/m max)

Transmitter With Audio Specifications



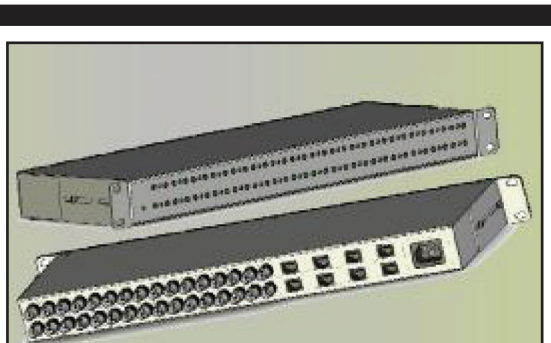
BLN-ATAV

Distance Switch	3-Position, “L” for distance less or equal to 1,650ft. (500m) “M” for distance between 1,650ft. to 3,300ft. (500~1000m) “H” for distance longer than 3,300ft. (1000m)
Power Required	24 VAC/DC, 250Ma min. May share 24 VAC power with camera.
Power On	Blue Led Indicator
Network Wiring	Terminal Block: UTP, AWG#16 - #24 (1.3-0.5mm) RJ45 Jack: UTP, AWG#24 (0.5mm) Category Type: Cat 2 or better Impedance: 100 ohms
Transmissive Distance	5,500 ft. (1.7Km) When use with BLN-ARAV Active receiver and Cat.2 or 3 8,200 ft. (2.5Km) When use with BLN-ARAV Active receiver and Cat.5 or better
Temperature	0°to +50°
Humidity(non-condensing)	0° to 95°
Dimensions excluding BNC	3.2 x 2.4 x 0.9 in (81x 60 x 24mm)
Weight	100 g
Material	Black ABS

Transmitter With Audio Electrical Characteristic & Performance

Frequency Response	DC to 5 MHz
Common-mode/ Differential-mode Rejection	60 Db typ. at 15 KHz to 5 MHz
Impedance	Coax, Female BNC 75 ohms UTP, Terminal Block 100 ohms Coax, Female RCA 600 ohms
DC Loop Resistance	52 ohms per 1,000 ft (18 ohms per 100m) for Cat. 5 AWG#24
Differential Capacitance	19 pF/ft max (62 pF/m max)

Active CCTV Receiver Hub



The Active CCTV Receiver Hub is provided for long-distance transmission of real-time color and monochrome video signals as well as all baseband (composite) video signals by using economical UTP (Unshielded Twisted Pair) cable. The inputs can be RJ45 Jack video inputs or Terminal Block video inputs.

The Active CCTV Reciever Hub has three types: 8 ports which is for four outputs, 16 ports which is for 2 outputs, and 32 ports which is for one output. These amplified (active) products enable video transmissions up to 4,900 feet (1.5 kilometers) across Category 5 cabling or better.

Features

- 8 /16 /32 ports active CCTV Hub
- Splitter are built-in for 8—16 ports
- Use with both passive and active transmitters for various distances:
  3,270 ft. (1,000M) use with any GEM CCTV passive transceiver balun
  ie. BLN-TL, BLN-RJ45, BLN-RJ45PT and BLN-MTL, etc.
  For 5,900 ft. (1.800M) use with GEM CCTV active transmitter balun
  ie. BLN-AT and
  BLN-ATAV.
- Easy and economical assembly by UTP cable
- Spark voltage protector built-in
- Impedance matched network built-in
- Luma and Chroma adjustable
- Long distance transmission
- CE, FCC certificated

Specification

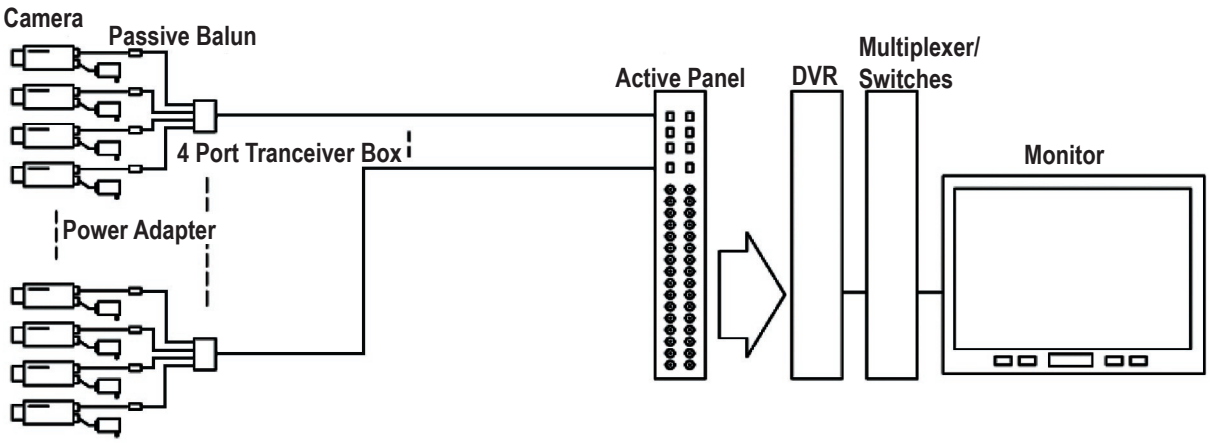
Environment	Close-Circuit TV (CCTV) equipment for security and surveillance.	
Devices	CCTV cameras, monitors, sequencers, multiplexers, digital video recorders (DVR) and other CCTV equipment.	
Bandwidth	DC to 8MHz	
Common Mode Rejection	60dB typical over the requency range	
Distance Switch 3-Positions	500m: 500m (1,640ft) or less 1.0km: 500~1,000m (1,640~3,280ft) 1.5km: over 1,000m (1,640ft) and up to 1,500m (4,900ft)	
Power Required	115/230VAC 320mA, DC power supply built-in	
Power On	Blue LED light	
Cable-UTP	UTP Cat. 5 or better, AWG #24 typically Impedance: 100 ohms Max. Cap.: 20pf/ft Attenuation: 6.6db/1000ft at 1MHz	
DC Loop Resistance	CAT.5	Loop Resistances/100M (320ft)
	20AWG (0.7mm)	7 ohms
	22AWG (0.6mm)	11 ohms
	24AWG (0.5mm)	18 ohms
Cable-Coax	Impedance: 75 ohms at 1MHz (RG59/U) Max. 25ft of coax allowed per end to end link	
Connectors	BNC female: 75 ohms Terminal Block: 100 ohms RJ45 Jack: 100 ohms	
Maximum Distance	1.5KM (4,900ft) across Cat. 5 cable or better	
Temperature	Operationg temp. 0 to 55º, Storage temp. -22 to 85º Humidity up to 95%	

Ordering Information

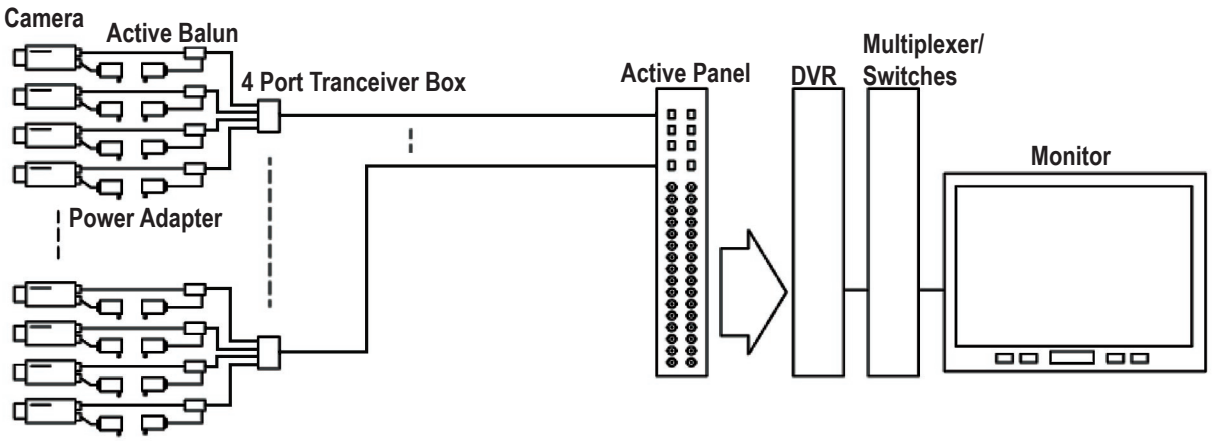
GEM Part No.	Description
AH16P-RJ45BNC	Active receiver hub, 16 ports for 2 outputs, 4RJ45 jack to 32 BNC jack
AH16P-STBNC	Active receiver hub, 16 ports for 2 outputs, 4 terminal block to 32 BNC jack
AH232P-RJ45BNC	Active receiver hub, 32 ports for one output, 8RJ45 jack to 32 BNC jack
AH32P-STBNC	Active receiver hub, 32 ports for one output, 8 terminal block to 32 BNC jack

Active CCTV Receiver Hub

Application 1: use with Passive Balun Tranceiver



Application 2: use with Active Balun Transmitter



The above contents are subject to change without notice.

Balun Competitive Cross References

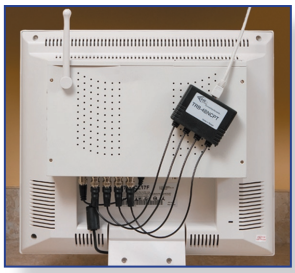
NVT Part Number	Gem Part Number	Configuration
NV-208A-M	BLN-TL	CCTV Balun - BNC Plug to Toolless, Punchdown Contacts
NV-214A-M	BLN-RJ45PT	CCTV Balun - BNC plug to RJ45 Jack with 6 inch pigtail
NV-652R	BLN-AR	CCTV Balun - Active - Receiver
NV-653T	BLN-AT	CCTV Balun - Active - Transmitter
NV-1613A	H16P-RJ45BNC	CCTV Balun Hub - 16 Position BNC to RJ45 Jack
NV-1662J	AH16P-RJ45BNC	Active Receiver Hub, 16 ports for 2 outputs, 4 RJ45 jacks to 32 BNC jacks
NV-1662R	AH16P-STBNC	Active Receiver Hub, 16 ports for 2 outputs, 4 terminal blocks to 32 BNC jacks
NV-3262J	AH32P-RJ45BNC	Active Receiver Hub, 32 ports for one output, 8 RJ45 jacks to 32 BNC jacks
NV-3262R	AH32P-STBNC	Active Receiver Hub, 32 ports for one output, 8 terminal blocks to 32 BNC jacks

MUX Part Number	Gem Part Number	Configuration
500000	BLN-RJ45	CCTV Balun - BNC Plug to RJ45 Jack
500002	TRB-RGB	Transceiver Box - 3 RCA (RGB) Jacks to 1 RG45 - Component Video
	TRB-RGBPT	Transceiver Box - 3 RCA (RGB) Plugs with Pigtails to 1 RJ45 Jack - Comp. Video
500007	BLN-VPDRJ45	CCTV Balun-BNC Plug with Separate Power and Data Leads, all pigtailed to RJ45 Jack
500009	BLN-TL	CCTV Balun - BNC Plug to Toolless, Punchdown Contacts
500010	BLN-VGAPCS	VGA Balun - DB15M with 6-inch lead to RJ456 Jack - PC side
500011	BLN-VGAMS	VGA Balun - DB15F to RJ45 Jack - Monitor side
500015	BLN-AR	CCTV Balun - Active - Receiver
500016	BLN-SV	S Video Balun to RJ45 Jack
500017	BLN-SVLRA	S Video Balun with Left & Right RCA Audio Jacks to RG45 Jack
500023	BLN-MTL	CCTV Balun - BNC Plug to Toolless Mini type
500024	BLN-PVRJ45	CCTV Balun - BNC Plug with Power Lead all pigtailed to RJ45 Jack
500122	AH16P-RJ45BNC	Active Receiver Hub - 16 Ports for 2 outputs, 4 RJ45 Jacks to 32 BNC Jacks
500131	H16P-STRJ45	CCTV Hub - 16 Position Screw Terminal To RJ45

Monitor/DVR Combo



MON-17-DVR



The **GEM Electronics Monitor/DVR Combo** is a 2 in 1 convenient design for a 17 inch TFT LCD monitor with
4-channel DVR. It is small and light weight making it perfect for Home, Small Office and Business Security Applications. It affords the user the following features:

- **80 GB HHD, Removable For PC Viewing**
- **Motion Detection Capabilities**
- **Door, Window Sensor Alarm**
- **Real Time Display**
- **30 fps Recording Frame Rate**
- **IP Addressable**

Model No.	MON-17-DVR
Operation System	NTSC or PAL
Operating Frequency	EIA: 15750Hz / 60Hz CCIR: 15625Hz / 50Hz
Input Voltage	100 – 240Vac 50 / 60 Hz
Compress Format	MJPEG (12-20K Kbytes/Frame)
Display Resolution	NTSC 720X480/PAL 720X576
Display Frame Rate	NTSC 120FPS/ PAL 100FPS
Recording Resolution	NTSC 640X224/ PAL640X272
Recording Frame Rate	NTSC 30FPS/ PAL 25FPS(Quad mode) NTSC 7.5FPS/ PAL 6.25FPS(Each mode)
Recording Quality (These are roughly values just for your reference)	Each: 6 – 20Kbytes/Frame Quad: 20 – 50Kbytes/Frame
Storage	Capacity up to 80 G (removable HDD rack)
Video input	4BNC with motion detection and video loss detection with Buzzer.
Display output	2BNC and S-video and VGA-out
I/O Port	4 Sensor Input/1 Alarm output
Recording Mode	Continuous/Manual/Sensor Event/Schedule, Motion trigger
Playback	Time, Event (support full and quad display)
Audio In/Out (option)	1ch/1ch RCA
Video backup (option)	USB 2.0 Link to PC
Network (option)	TCP/IP, RJ-45, DHCP (fix IP, password protected)
User control	LCD front OSD Function control. DVR with IR remote control and keypad control.
Screen diagonal	17” active matrix TFT LCD
Contrast Ratio	400:1(TYP)
Brightness	300 cd/□
View Angle	R/L: 85/85 U/D: 85/85
PC-IN/AV-IN	15Pin-D-sub/Mini din; RCA Jack
Speaker	2W X 2 on front cover
Pixel Pitch /mm	0.264(H) X 0.264(V)
Resolution	1280(H) X 1024(V) SXGA
Response Time/color depth	12ms/16.777 million by dithering
Power Consumption	LCD: 45W(max), DVR: 50W(max)/ AC In: 100~240V
Operating Temperature	0 – 50°
Humidity	10 – 90 % RH
Certification	UL, CSA, LVD, FDA, FCC, CE
Dimension W X H X D	440X 430 X 205 mm
Weight (N.W. / G.W.)	7.3Kgs / 9.3Kgs

Monitor/DVR Combo - Triplex Series

17” LCD and 4 Channel — 8 Channel — 16 Channel Triplex DVR



Features

- MPEG4 DVR (4CH / 8CH / 16CH)
- 17” TFT XGA LCD
- Triplex
- PC Mouse Control
- Wireless Remote Controller
- 250 GB HDD Built-In
- Maximum 2 HDD

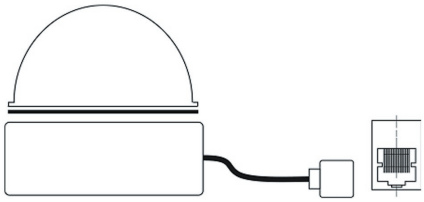
Specifications

GEM Part Number			MON-17-DVR/4CH	MON-17-DVR/8CH	MON-17-DVR/16CH
LCD Monitor			17” XGA TFT LCD		
DVR					
Video Input Channel (BNC)			4CH	8CH	16CH
Video Output Channel (BNC)			1CH	1CH	1CH
Video Standard			NTSC/ PAL Selection by MENU		
Display	Resolution	NTSC	720 x 480 —720 x 240 — 360 x 240		
		PAL	720 x 576 — 720 x 288 — 360 x 288		
	Speed	NTSC	120fps	120fps	120fps
		PAL	100fps	100fps	100fps
Recording / Playback					
Compression Format			MPEG 4		
Mode			Continuous / Sensor / Motion		
Video Level			Low / Normal / High		
HDD	Internal Storage		250GB HDD Built-In		
Searching Method			Date / Event / Motion Detection		
Back Up			USB 2.0		
Network			TCP / IP (LAN 10/100 Base Ethernet)		
Monitoring			Clinet Software		
Connection			Maximum 5 Clients		
Audio	Input Channel		1RCA	4RCA	4RCA
	Live Output		1RCA	1RCA	1RCA
Environmental	Operating Temperature		0˚C – 50˚C		
	Humidity		30% - 90% RH (Non-Condensing)		
Others	Multi-Tasking		Triplex		
	PC Mouse		Available		
	Wireless Remote Control		Available		
	Power Source		12V DC, 3A		
Physical Dimension			388(W) x 364(H) x 170 (D) mm		
			388(W) x 430(H) x 170(D) mm: Table Stand		
Packing Weight			Approximately 18kg		

Direct RJ45 Color Dome Camera

CAM-DMRJ45

Color CCD Vari Focal Dome Camera
(High Resolution)





Specifications

TV System	NTSC, PAL
Image Sensor	1/3 inch Super HAD CCD Image Sensor
CCD Effective Pixels	(NTSC): 811(H) x 508(V), (PAL): 795(H)x 596(V)
Scanning System	(NTSC): 525 lines, 60 fields/sec., (PAL): 625 lines, 50 fields/sec.
Sensitivity	0.01 lux F1.2
Lens	2.8–5.8mm or 3.5–8 Omm Vari Focal lens with auto iris
Resolution	500 TV lines
S/N Ratio	52dB (Min.) / 60dB (Typ.) (AGC OFF)
White Balance	Auto (3200-10000ºK (Zero color rolling)
Electronic Shutter	(NTSC): 1/60-1/120,000 sec., (PAL): 1/50-1/120,000 sec.
Video Output	1.0 Vp-p composite video at 75 Ohm
Connector	RJ45 Jack
Cable - UTP	Cat 5e or better, 24 gauge typ. – Impedance 100 Ohm at 1 MHz Max. – Capacitance: 20pf/pt, Attenuation: 6.6 dB / 1000ft at 1 MHz Max.
Pins out & Polarity	Video: 7+ /8-, Power: 1,3,5+ 2,4,6-
Gamma Correction	0.45
Maximum Distance	680M
Gain Control / BLC Function	Auto
Storage Temperature	-30ºC to 60ºC
Operation Temperature	-20ºC to 50ºC
Remote Power Supply	24V DC/AC, 250mA (+/-10%)
Construction	Dome: Hard PC, Base Plate: Biege ABS
Dimensions	Ø 112mm x 100(L)mm
Weight	200g (0.44lb)

Flat Panel Digital TV/Monitor



19 inch LCD TV NAT1 shown

A Grade Panel:
Maximum bright point = 3 dot
Maximum dark point = 3 dot
Maximum total bright & dark point = 5 dot

Typical Specification	19 inch LCD TV N9T1	20.1 inch LCD TV NAT1
Control IC	NOVATEK	NOVATEK
Video / Graphic Processing		
LCD Panel Type	19" (480mm) Diagonal Sanyo Panel	20.1" Diagonal AUO Panel
Maximum Resolution	1280 (H) x 1024 (V)	800 (H) x 600 (V)
Active Display Area	376.32(H) x 301.056 ((V) mm	408(H) x 306 (V) mm
Pixel Dimension	0.294(H) x 0.294(V)mm	0.51(H) x 0.51(V)mm
Brightness	250 cd/m2 (Typical)	500 cd/m2 (Typical)
Contrast Ratio	700:1 (Typical)	500:1 (Center of Screen)
Response Time (Tr/Tf)	16/9ms	5/11ms
Viewing Angle	Horizontal -85°/+85°; Vertical-85°/+85°	Horizontal -80°/+80°; Vertical-60°/+60°
Display Colors	16.7 millions	16.7 millions
Video Synchronization	TTL positive or negative	TTL positive or negative
PC compatible Frequency	30-80KHz(H) / 50-75Hz(V) Max. 1280 x1024 @60Hz	38-50KHz(H) / 50-75Hz(V) Max. 800 x 600 @75Hz
Video Compatibility	Multi-Standard for NTSC / PAL / SECAM	Multi-Standard for NTSC / PAL / SECAM
DTV & HDTV Compatibility	N.A (480I Only)	N.A. (480I Only)
Analog TV Compatibility	NTSC,PAL B/G/I/D/K, SECAM L/East Option	NTSC,PAL B/G/I/D/K, SECAM L/East Option
Adjustable Color Temperature	9300K/7500K/6500K/ User.	9300K/7500K/6500K/ User.
Aspect Ratio	4 : 3	4 : 3
VGA Auto Frequency Correction	Y	Y
Background setting	Y(Set at Blue Color)	Y(Set at Blue Color)
TV Auto Frequency Tunning	Y	Y
Audio Processing		
No. of speakers	R. x 1 L. x 1	R. x 1 L. x 1
Output Watt	5W + 5W	5W + 5W
Output Resistance	8 Ohm	8 Ohm
Sound Demodulation	FM-Mono / FM-Stereo / AM-Mono	FM-Mono / FM-Stereo / AM-Mono
Functions		
Remote controller	Y	Y
OSD Languages	7 languages	7 languages
Auto Program sorting	Y	Y
Manual Program Editing	Y	Y
Mute	Y	Y
Closed Caption	N.A.	N.A.
Parental Control (V-Chip)	N.A.	N.A.
Teletex	N.A.	N.A.
Factory Mode on OSD	Y	Y

Flat Panel Digital TV/Monitor

Typical Specification		19 inch LCD TV N9T1	20.1 inch LCD TV NAT1
Input Terminals			
TV Tuner(Detachable)		NTSC(USA) / PAL & SECAM tuner(Europe)	NTSC(USA) / PAL & SECAM tuner(Europe)
Video Input (rear side)		Input 1: CVBS x1, S-Video x1, YCbCr x1	Input 1: CVBS x1, S-Video x1, YCbCr x1
Graphic Input(Rear)		Input 1. RGB D-Sub 15 pin x1	Input 1. RGB D-Sub 15 pin x1
Output Terminals			
Audio Output(Rear)		Output 1. Stereo Audio R/L x1	Output 1. Stereo Audio R/L x1
Others			
Power	Voltage	100~240 VAC / 50~60Hz	100~240 VAC / 50~60Hz
	Power consumption	45W(typical)	60W(typical)
	Stand-by	< 3W	< 3W
Safety & EMC Certification		UL/FCC/BSMI/CB / CE/ TUV	UL/FCC/BSMI/CB / CE/ TUV
Dimension	With Base	440(W) x 597(H) x 191(D) mm	440(W) x 597(H) x 191(D) mm
	W/O Base	440(W) x 662(H) x 65(D) mm	440(W) x 662(H) x 65(D) mm
Wall Mount Hole Dimension		VESA Standard	VESA Standard
Green Product		RoHS	RoHS
Weight w/o stand		9.50Kgs	9.50Kgs
Wall Mount		Y	Y
Box dimension		550(W) x 690(H) x275(D) mm	550(W) x 690(H) x 275(D) mm
Weight in NET		10Kgs	10Kgs
Weight in GROSS		11.5Kgs	11.5Kgs
Glass, Touch Panel ,Color		Option	Option
Container Load (Palletized)		230/20ft , 460 /40ft	230 /20ft , 460 /40ft



LCD TV NAT1 Back shown

A Grade Panel:
Maximum bright point = 3 dot
Maximum dark point = 3 dot
Maximum total bright & dark point = 5 dot

26 Inch Flat Panel Digital TV



LCD TV LV-26 shown

A Grade Panel:
Maximum bright point = 2 dot
Maximum dark point = 7 dot
Maximum total bright & dark point = 7 dot

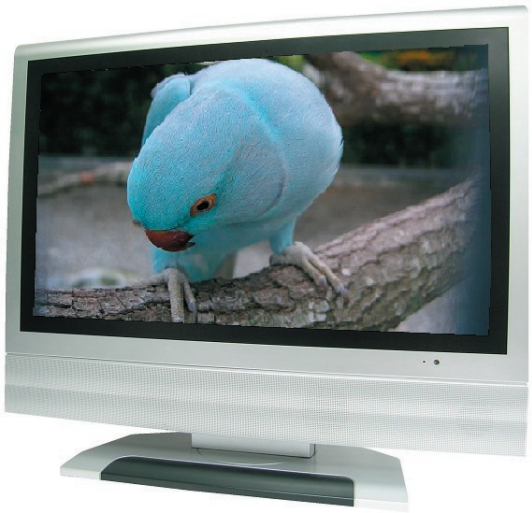
Typical Specification	26 inch LCD TV	
Model No.	LV-26 (NTSC)	LV-26 (PAL & SECAM)
Video / Graphic Processing		
LCD Panel Type	26" Diagonal AUO Panel	
Maximum Resolution	1366 (H) x 768 (V)	
Active Display Area	575.769(H) x 323.712 (V) mm	
Pixel Dimension	0.4215 (H) x 0.4125(V) mm	
Brightness	500 cd/m2 (Typical)	
Contrast Ratio	600:1 (Typical)	
Response Time (Tr/Tf)	(Tr / Tf) 15 / 10 ms	
Viewing Angle	Horizontal -85°/+85°; Vertical-85°/+85°	
Display Colors	16.7 millions	
Video Synchronization	TTL positive or negative	
PC compatible Frequency	30-60KHz(H) / 50-60Hz(V)	
Video Compatibility	Multi-Standard for NTSC / PAL / SECAM	
DTV & HDTV Compatibility	480I/P,720P,1080I(Option 576I/P)	
Analog TV Compatibility	PAL B/G/I/D/K, SECAM L/East	
Digital TV Compatibility (DVBT)	Option	
De – inter lacer	Y	
Comb Filter	Y	
Background setting	Y(Set at Blue Color)	
VGA Auto Frequency Correction	Y	
TV Auto Frequency Tunning	Y	
Audio Processing		
AV Stereo	Y	
No. of speakers	R. x 2 L. x 2	
Audio output power (Built-in)	10 W x 2	
Output Resistance	8 Ohm	
PC / AV Audio in	Y	

26 Inch Flat Panel Digital TV

Typical Specification		26 inch LCD TV	
Functions			
Full function remote controller		Y	
OSD		Chinese/English/ Deutsch/Espanol /French	
PIG		Y	
Auto Program sorting		Y	
CH/Manual Program Editing		Y	
Freq. Return		Y	
OSD Tone		Y	
Sleep Timer		Y	
Support PC input		Y	
Color status memory		Normal ,Light ,Dark ,Theater	
Closed Caption		N.A., NTSC Only	
Parental Control (V-Chip)		N.A., NTSC Only	
Teletex		Option	Yes
Scart		Option	Yes
Aspect Ratio Converter		16:9 , 4:3	
Mute		Y	
Input Terminals			
TV Tuner(Detachable)		NTSC / PAL & SECAM Tuner(Europe)	
Video Input (rear side)		PC RGB D-Sub 15 pin x 1	
		AV (CVBS) x 1	
		S-Video x 1	
		YCbCr & YPbPr x 1	
Output Terminals			
Audio Output(Rear)		Stereo Head phone(Audio) x1	
Others			
Power	Voltage	100~240 VAC / 50~60Hz	100~240 VAC / 50~60Hz
	Power consumption	150W(typical)	150W(typical)
	Stand-by	5W	5W
Safety & EMC Certification		BSMI / FCC / UL	
Dimension With Base		620 (H) X 700 (W) X 260 (D) mm	
Wall Mount Hole Dimension		VESA Standard	
Green Product		With RoHS	
Weight w/o stand		13 Kgs	
Remote Controller		Yes	
Option Accessary		Option	
Box dimension		695(H)X810(W) X 260(D) mm	
Weight in NET and GROSS		14/18 Kgs	
Container Load (Palletized)		162 sets/20ft , 330 sets/40ft	

The warranty is 14 months from the shipping date, supplier will be responsible for defect parts replacement that prove as manufacturer defect under normal operation situation.

32 Inch Flat Panel Digital TV



32 inch LCD TV LV-32 shown

A Grade Panel:
Maximum bright point = 2 dot
Maximum dark point = 7 dot
Maximum total bright & dark point = 7 dot

Typical Specification	32 inch LCD TV	
Video / Graphic Processing		
Model No.	**LV32-AUG-PAL & SECAM**	**LV32-AUG-NTSC**
LCD Panel Type	32" Diagonal AUO Panel	
Maximum Resolution	1366 (H) x 768 (V)	
Active Display Area	697.68 (H) x 392.26 (V) mm	
Pixel Dimension	0.51(H) x 0.51(W) mm	
Brightness	550 cd/m2 (Typical)	
Contrast Ratio	800:1 (Typical)	
Response Time (Tr/Tf)	(Tr/Tf:16ms/10ms) (Gray to Gray 4ms)	
Viewing Angle	Horizontal -85°/+85°; Vertical-85°/+85°	
Display Colors	16.7 millions	
Video Synchronization	TTL positive or negative	
PC compatible Frequency	30-80KHz(H) / 50-75Hz(V) Max. 1366 x 768 @60Hz	
Video Compatibility	Multi-Standard for NTSC / PAL / SECAM	
DTV & HDTV Compatibility	480I/P,720P,1080I(Option 576I/P)	
Analog TV Compatibility	PAL B/G/I/D/K, SECAM L/East	
Digital TV Compatibility (DVBT /ATSC)	Option	
De – inter lacer	Y	
Comb Filter	Y	
Background setting	Y(Set at Blue Color)	
VGA Auto Frequency Correction	Y	
TV Auto Frequency Tunning	Y	
Audio Processing		
AV Stereo	Y	
No. of speakers	R. x 2 L. x 2	
Audio output power (Built-in)	5W + 5W (10W + 10W optional)	
Output Resistance	8 Ohm	
PC / AV Audio in	Y	

32 Inch Flat Panel Digital TV

Typical Specification		32 inch LCD TV	
Model No.		LV32-AUG-PAL & SECAM	LV32-AUG-NTSC
Functions			
Full function remote controller		Y	
OSD		English, Deutsch, Espanol, French, Chinese (5 languages)	
PIG		Y	
Auto Program sorting		Y	
CH/Manual Program Editing		Y	
Freq. Return		Y	
OSD Tone		Y	
Sleep Timer		Y	
Support PC input		Y	
Color status memory		Normal, Light, Dark, Theater	
Closed Caption		N.A.	USA Only
Parental Control (V-Chip)		N.A.	USA Only
Teletex		Y	Optionl
Scart		Y	Optionl
Aspect Ratio Converter		16:9 , 4:3	
Mute		Y	
Input Terminals			
TV Tuner(Detachable)		NTSC / PAL&SECAM Tuner(Europe)	
Video Input (rear side)		PC RGB D-Sub 15 pin x 1	
		AV (CVBS) x 1	
		S-Video x 1	
		YCbCr & YPbPr x 1	
Output Terminals			
Audio Output(Rear)		Stereo Head phone(Audio) x1	
Others			
Power	Voltage	100~240 VAC / 50~60Hz	
	Power consumption	175W(typical)	
	Stand-by	< 3W	
Safety & EMC Certification		BSMI / FCC / UL	
Dimension With Base		820(H) x 685(W) x 265(D) mm	
Wall Mount Hole Dimension		VESA Standard	
Green Product		RoHS	
Remote Controller		Yes	
Option Accessary		Option	
Box dimension		950(H) x 785(W) x310(D)mm	
Weight in NET and GROSS		18/23 Kgs	
Container Load (Palletized)		96 sets/20ft , 192 sets/40ft	

The warranty is 14 months from the shipping date, supplier will be responsible for defect parts replacement that prove as manufacturer defect under normal operation situation.

37 Inch Flat Panel Digital TV



37 inch LCD TV LV-37 shown

Typical Specification	37 inch LCD TV	
Model No.	**LV37-AUG-PAL**	**LV37-AUG-NTSC**
Video / Graphic Processing		
LCD Panel Type	37" Diagonal LG/Sharp Panel	
Maximum Resolution	1366 (H) x 768 (V)	
Active Display Area	819.6(H) x 460.8(V) mm	
Pixel Dimension	0.6(H) x 0.6(W) mm	
Brightness	500 cd/m2 (Typical)	
Contrast Ratio	1000:1 (Typical)	
Response Time (Tr/Tf)	(Tr 16ms) (Gray to Gray 8ms)	
Viewing Angle	Horizontal -85°/+85°; Vertical-85°/+85°	
Display Colors	16.7 millions	
Video Synchronization	TTL positive or negative	
PC compatible Frequency	30-80KHz(H) / 50-75Hz(V) Max. 1366 x 768 @60Hz	
Video Compatibility	Multi-Standard for NTSC / PAL / SECAM	
DTV & HDTV Compatibility	480I/P,720P,1080I(Option 576I/P)	
Analog TV Compatibility	PAL B/G/I/D/K, SECAM L/East	
Digital TV Compatibility (DVBT/ATSC)	Option	
De – inter lacer	Y	
Comb Filter	Y	
Background setting	Y(Set at Blue Color)	
VGA Auto Frequency Correction	Y	
TV Auto Frequency Tunning	Y	
Audio Processing		
AV Stereo	Y	
No. of speakers	R. x 2 L. x 2	
Audio output power (Built-in)	5W + 5W (R02: 10W + 10W optional)	
Output Resistance	8 Ohm	
PC / AV Audio in	Y	

37 Inch Flat Panel Digital TV

Typical Specification		37 inch LCD TV	
Model No.		**LV37-AUG-PAL**	**LV37-AUG-NTSC**
Functions			
Full function remote controller		Y	
OSD		Y(3 languages)	
PIG		Y	
Auto Program sorting		Y	
CH/Manual Program Editing		Y	
Freq. Return		Y	
OSD Tone		Y	
Sleep Timer		Y	
Support PC input		Y	
Color status memory		Normal ,Light ,Dark ,Theater	
Closed Caption		N.A.	USA Only
Parental Control (V-Chip)		N.A.	USA Only
Teletex		Y	Optional
Scart		Y	Optional
Aspect Ratio Converter		16:9 , 4:3	
Mute		Y	
Input Terminals			
TV Tuner(Detachable)		NTSC / PAL&SECAM Tuner(Europe)	
Video Input (rear side)		PC RGB D-Sub 15 pin x 1	
		AV (CVBS) x 1	
		S-Video x 1	
		YCbCr & YPbPr x 1	
Output Terminals			
Audio Output(Rear)		Stereo Head phone(Audio) x1	
Others			
Power	Voltage	100~240 VAC / 50~60Hz	
	Power consumption	220(typical)	
	Stand-by	< 3W	
Safety & EMC Certification		BSMI / FCC / UL	
Dimension	With Base	950(W)*265(D)*760(H)mm	
Wall Mount Hole Dimension		VESA Standard	
Green Product		RoHS	
Remote Controller		Yes	
Option Accessary		Wall Mount (Type WM-TP37)	
Box dimension		1065(W)*315(D)*870(H)mm	
Weight in NET and GROSS		28/30 Kgs	
Container Load (Palletized)		80sets/20ft,168sets/40ft	
Wall Mount Hole Dimension		VESA Standard	

The warranty is 14 months from the shipping date, supplier will be responsible for defect parts replacement that prove as manufacturer defect under normal operation situation.