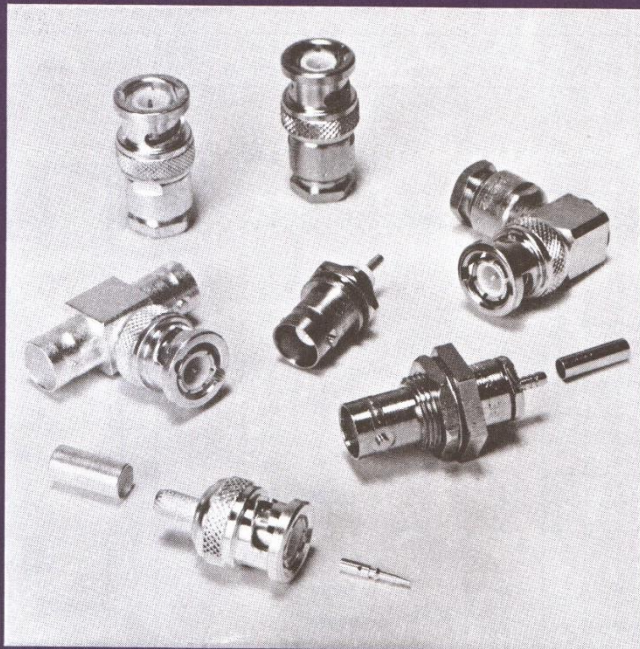


r.f. connectors & components. Greenpar



Series BNC

Introduction

Series BNC which are small bayonet-lock, coaxial connectors, are probably the most widely used of all.

The Greenpar range is particularly extensive, covering numerous different cable and chassis mounting styles, and including many U.S. MIL spec. types, as well as Post Office and Greenpar proprietary designs.

Greenpar Series BNC connectors are manufactured to ensure compatibility with the latest British Standard and IEC mating face requirements, and they are thus fully intermateable with connectors manufactured both to these specifications, and to U.S. Specification MIL-C-39012.

Connectors are available in both 50- and 75-ohm impedance versions for use with cables up to 9mm. diameter. Additionally, certain items can be supplied for use with larger cables.

In addition to the standard BNC range, details are also given of modified BNC connectors for high voltage use, and for 'push-on' mating.

Greenpar series BNC 50 ohm and 75 ohm connectors are intermateable.

Performance

Standard BNC

VSWR (typical): less than 1.2
up to 4GHz

Working voltage: 500V peak

Proof voltage: 2000V peak

Ambient temperature range:
-55°C to +150°C

High voltage BNC

VSWR (typical): less than 1.4
up to 4GHz

Working voltage: 3,000V peak

Proof voltage: 6,000V d.c. single
connector; 10,000V d.c. mated pair

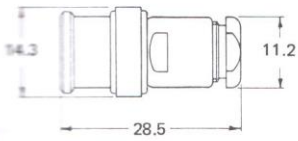
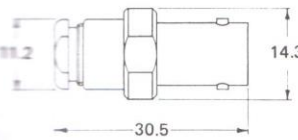
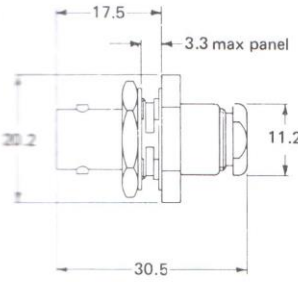
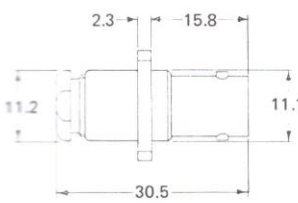
Ambient temperature range: -55°C
to 150°C

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Crimp connectors series BNC

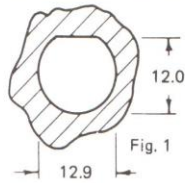
BRAID CLAMP/CONTACT CRIMP

Connector outline	Assy. data Fig.	Greenpar Eng. No. 50 ohm 75 ohm	Cable clamp	Cable groups						
				7	10	12	25	29	30	60
PLUGS 	3 3	35070 37570	D D							
JACKS 	3 3	35060 37560	D D							
BULKHEAD JACKS 	3 3	35039 37539	D D							
PANEL JACKS 	3 3	35057 37557	D D							

ORDERING INFORMATION

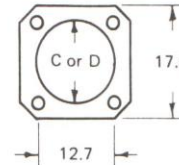
To order, please specify GREENPAR ENGINEERING No., CABLE CLAMP, CABLE GROUP and, if relevant, MOUNTING HOLE details. GE35057D10G. For crimp tool, specify Burndy No. MIOS-1; with head - 57/BNC/1; and stop, ref. BNC/1. Or use Greenpar crimp tool GE30039 with any XA dieset.

PANEL PIERCING FOR BULKHEAD JACKS



See note 1.

MOUNTING DETAILS FOR PANEL JACKS



Dimension C: rear mounting - 11.2
Dimension D: front mounting - 11.2

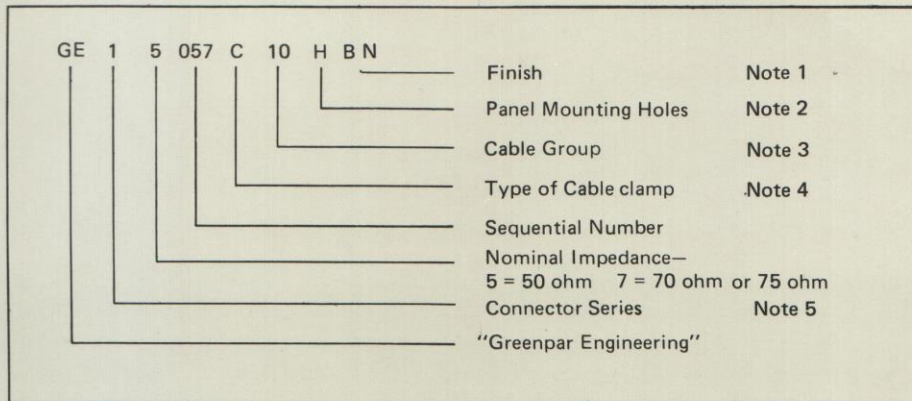
MOUNTING HOLES

3 - 56 UNF - E
4 - 40 UNC - F
6BA - G
3.0 mm. dia. - H
2.8 mm. dia. - K

Note.

1. If insulating bushes are required for Bulkhead items see page 6 note 8.

The Greenpar part numbering system



Notes:

1. Alternative finishes are indicated by letter code. eg. BN indicates bright nickel finish.
2. Size of fixing holes, drilled or tapped, for panel mounted items. Details are given against individual part numbers in the catalogue.
3. One- to three-digit number indicating the group of cables which the connector will accept. Reference numbers for common cables are listed overleaf.
4. Letters A, C, D or W, or a hyphen, indicate the type of cable clamp, as follows:
 - A Typical part number GE35070A10. These connectors utilise the improved MIL style braid clamp with V-groove sealing gasket. They feature a centre contact which is captive between two insulators, and are illustrated in BNC assembly instructions, Fig. 1.
 - C This is the preferred type of cable clamp, and offers the advantages of simplified assembly and captive centre contact. A flanged ferrule is inserted under the braid and outer sheath of the cable, and a rubber sleeve is compressed both to retain the ferrule in the connector body and to grip the cable. The result is a clamp combining good cable retention and electrical performance, with ease of assembly. The cable entry is also effectively waterproofed. This type is illustrated in BNC assembly instructions, Fig. 2.
 - D The D suffix indicates connectors for crimp assembly. These may use crimp connection either for both the centre conductor and the screen (BNC assembly instructions Fig. 4 or 5) or, centre conductor only, utilising a C-type screen connection (Fig. 3).
 - W This is a modification of the C-type clamp for use with large cables having metal reinforced sheaths, or copper tape as part of the screen conductor.
 - Typical part number GE35001-10. These connectors are generally equivalents of the U.S. MIL-spec. items such as UG88/U, having MIL style braid clamps for the screen connection and non-captive centre contacts. They may utilise plain or V-groove sealing gaskets: illustrations of the two types are given in the BNC assembly instructions, Fig. 15 and 16
5. Connector series.
 1. Series N.
 2. Series C and SC.
 3. Series BNC, TNC.
 4. Series UHF.
 5. Between-series adaptors, and Greenpar ISA system.
 6. Miniature connectors SMB, SMC, SMS, S.
 7. Not used.
 8. Oscilloscope probes and miscellaneous components.
 9. Series GP (miniature BNC).

Cable Group Cross Reference

Cable type	Group	Cable type	Group
AERIALITE		TRANSRADIO	
M4207	52	JO2230	29
4303	246	KO1292a	87
4304	253	MHP/50	87
4305	247	UNIFORM TUBES	
AMPHENOL		UT141	73
21-597	119	UT141A	73
BICC		RG	
EC59	22	6A/U	79
EC60	22	8A/U	1
T3008	30	9B/U	4
T3010	10	11A/U	1
T3022	52	13A/U	4
T2109	42	55B/U	60
T3171	30	58C/U	10
T3172	52	59B/U	25
T3173	52	62A/U	25†
T3173	52	63B/U	1
T3187	30	114A/U	1
T3205	7	140/U	25
T3231	27	141A/U	10
T3250	29	142B/U	10
T3261	24	143A/U	79
T3263	24	144/U	1
T3264	22	174A/U	22
T3289	22	178B/U	24
T3304	25	179B/U	22
T3306	22	188A/U	22
T3328	29	196A/U	24
TM3328	29	210/U	25
T3330	117	212A/U	79
T3357	61	213/U	1
T3358	62	214/U	4
T3364	1	216/U	4
T3369	73	218/U	18
T3512	81	222/U	79
T3514	81	223/U	60
T3515	223	316/U	22
T3516	81	UR	
T3517	223	34	20
T3518	274	41	12
TR107/083	81	47	20
TR108/056	81	56	12
TR109/023	62	81	4
TR113/091	81	84	12
TR115/023	25	92	19
TR116/091	81	URM	
TR116 UG091	81	43	10
DAVU		57	1
UR5602	12	60	4
UR 5604	10	64	1
F & G		65	1
0, 8/4, 9DZ	7	67	1
P.O.		70	12
500A	61	74	18
500B	62	76	10
502A	30	77	18
502B	117	90	25
503	167	91	4
2001*	30	95	22
2002	117	96	25†
2003	62	102	6
SEAELECTRO		107	107
PT119,141-HP	73	109	22
TELCON		110	24
AS 50M	27	111	22
AS 60M	7	112	4
ET 12M	7	113	107
K 16M	30	116	22
K 19M	52	201	52
PT 1M	52	202	52
PT 1YM	12	301	60
PT 91M	1	DURADIO	
		M68	42

See notes on above cables lists on adjoining page.

* See note 4
† See note 7

Group	Nom. Impedance Ohm	Cable Type numbers
1	50	URM 67; RG8A/U; BICC T3364
	75	URM 57, 64; RG11A/U, 63B/U, 114A/U, 144/U; Telcon PT91M
4	50	UR81; URM91, 112; RG9B/U, 214/U
	75	URM 60; RG13A/U, 216/U
6	50	URM 102
7	75	BICC T3205; F & G 0, 8/4, 9DZ; Telcom AS60M, ET12M.
10	50	URM 43, 76, RG58C/U, 141A/U, 142B/U; BICC T3010; Davu UR5604
12	75	UR 41, 56, 84; URM 70; Davu UR5602; Telcon PT 1YM
18	50	URM 74; RG218/U
	75	URM 77
19	50	UR 92
20	50	UR 47
	75	UR 34
22	50	URM 95, 109, 116; RG 174A/U, 188A/U, 316/U; BICC T3264, T3306, EC59.
	75	URM 111; RG 179B/U; BICC T3289, EC60
24	50	URM 110; RG 178B/U, 196A/U; BICC T3261 T3263
25	75	URM 90, 96†, RG59B/U, 62A/U†, 140/U, 210/U; BICC T3304, TR115/023
27	75	BICC T3231, Telcon AS 50M
29	50	BICC T3250, T3328, TM3328
	75	Transradio JO2230
30	50	BICC T3008; Telcon K16M
	75	BICC T3187; P.O. 502A; P.O. 2001*
42	75	Duradio M68; BICC T3109
52	75	URM 201; 202; Aerialite M4207, BICC T3020, T3172, T3173; Telcon K19M, PM1M
60	50	URM 301; RG55B/U, 223/U
61	75	BICC T3357; P.O. 500A
62	75	BICC T3358, TR 109/023; P.O. 500B, 2003
73	50	UT 141A; Seaelectro PT 119, 141-HP; BICC T3369
79	50	RG 143A/U, 212A/U
	75	RG6A/U
81	75	BICC T3512, 3514, 3516, TR 107/083, TR 108/056, TR 113/091, TR 116/091, TR 116 UG091
87	50	Transradio MHP/50, KO1292a
107	50	URM 107
	75	URM 113
117	75	BICC T3330; P.O. 502B, 2002
119	75	Amphenol 21-597
167	75	P.O. 503
223	75	BICC T3515, T3517
246	75	Aerialite 4303
247	75	Aerialite 4305
253	75	Aerialite 4304
274	75	BICC T3518

Notes on cables list

1. Connector part numbers with suffix
— 4 accept cables of groups 1 and 4.
2. Connector part numbers with suffix
— 10 accept cables of groups 10 and 60.
3. Connector part numbers with suffix
— 25 accept cables of groups 12 and 25.
- *4. Suitable for GE37191D30 series only.
5. D7 cable entries accept BICC T3205,
F & G 0, 8/4, 9DZ only.
6. Connectors are available to suit many
cables not listed above. Please enquire
for special requirements.
- † 7. Special versions of MIL-crimp
connectors are required for these
semi air spaced cables.
See note on Page 9