

GF7-TS449D is a replacement
for Pic's 190708

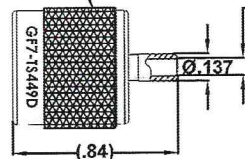
REVISIONS					
ECN	REVISION	ZONE	DESCRIPTION OF CHANGE	APPROVED	DATE
1078	NR	-	INITIAL RELEASE	CC	6-2-25

TNC
CONNECTOR

CENTER
CONTACT
Ø.088

CRIMP
FERRULE
Ø.048

ADHESIVE
HEAT SHRINK
Ø.21



1.0 PERFORMANCE

- 1.1 Frequency range: DC - 3 GHz
- 1.2 Nominal impedance: 75 Ohms
- 1.3 Working voltage: 500 Vrms @ sea level
- 1.4 DWV: 1000 Vrms @ sea level
- 1.5 Insulation resistance: 5000 Megaohms @ 500 volts DC
- 1.6 VSWR < 1.2:1 Max DC-3 GHz
- 1.7 Insertion Loss < 0.2 dB Max DC-3 GHz

2.0 *MATERIALS

- 2.1 Body: Brass per ASTM-B-16
- 2.2 Contact: BeCu per ASTM-B-196
- 2.3 Dielectric: PTFE per ASTM-D-1710, type I, GR.1, CLA
- 2.4 Outer Contact: BeCu per ASTM-B-196
- 2.5 Ferrule: Copper per ASTM-B-16 or Copper CDA-122
- 2.6 Heat shrink: ATUM PER MIL-I-23053/4, Class 3

3.0 FINISHES

- 3.1 Body, Outer Contact: Nickel per MIL-PRF-39012
- 3.2 Ferrule: Albaloy Tri-M
- 3.3 Contact: Gold per MIL-PRF-39012

4.0 MECHANICAL

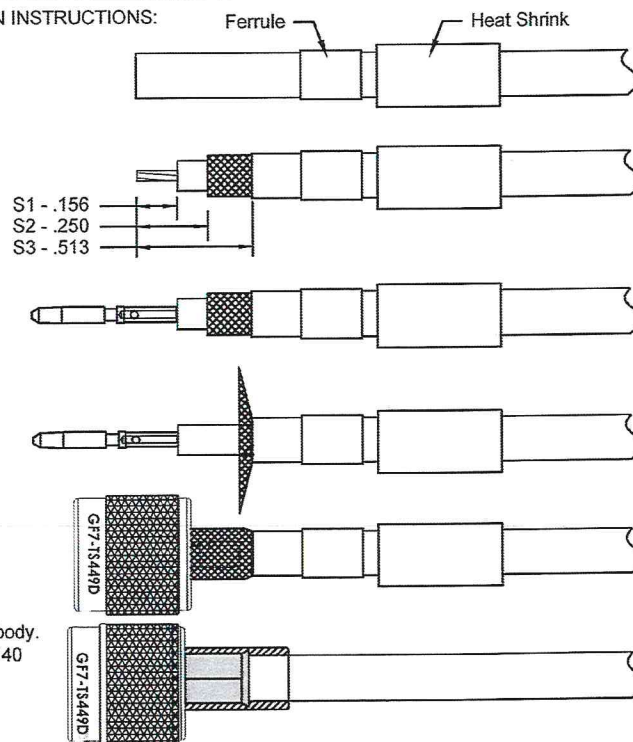
- 4.1 Interfaces: MIL-STD-348 figure 332-1
- 4.2 Termination style: Cable contact-solder or crimp, Crimp ferrule
- 4.3 Cable retention: 30 LBS

5.0 ENVIRONMENTAL

- 5.1 Temperature range: -65/+165 °C
- 5.2 Vibration: MIL-STD-202, Method 204, COND B
- 5.3 Shock: MIL-STD-202, Method 213, COND I
- 5.4 Thermal shock: MIL-STD-202, Method 107, COND B
- 5.5 Corrosion: MIL-STD-202, Method 101, COND. B
- 5.6 Moisture resistance: MIL-STD-202, Method 106

TERMINATION INSTRUCTIONS:

- 1) Slide heat shrink and ferrule over end of cable prior to stripping cable. Ensure cable end is cut square.
- 2) When using automated stripping equipment, strip cable to dimensions shown. If automated stripping equipment is not available strip S1 and S3 only and trim excess shield at step 5. Care should be taken not to nick the center conductor and shield.
- 3) Install contact onto cable conductor flush with dielectric. Contact can be crimped or soldered. When crimping use DMC positioner K-817-3 (selector 6) with hand tool M22520/2-01 or equivalent.
- 4) Fold all shields back perpendicular to cable using a tweezers.
- 5) Slide the connector onto the cable until the contact snaps into the dielectric lock of the connector. Fold all shields back over the end of the connector.
- 6) Slide the ferrule over the shield until it is against the connector body. Trim any excess shield. Crimp the ferrule using M22520/5-41 Y140 HEX B (0.178 hex) with hand tool M22520/5-01 or equivalent. After crimping ferrule apply adhesive heat shrink.



*RoHS/REACH Compliant

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES.
ALL DIMENSIONS ARE FOR REFERENCE ONLY.

DESIGNED BY: T Forst	DATE: 2/14/2025	CHECKED BY: M. Frey	DATE: 6/02/2025	APPROVED BY: C. Chapman	DATE: 6/2/2025
DESCRIPTION: TNC STRAIGHT PLUG FOR GIGAFLIGHT CABLE GF7-303D GF7-TX303D & GF7-449D					
6180 Industrial Ct. Greendale WI, 53129 Tel: 414-488-6320 Fax: 414-433-9041		CAGE CODE: 8A8D5 PART NUMBER: GF7-TS449D		SHEET: 1 OF 1	