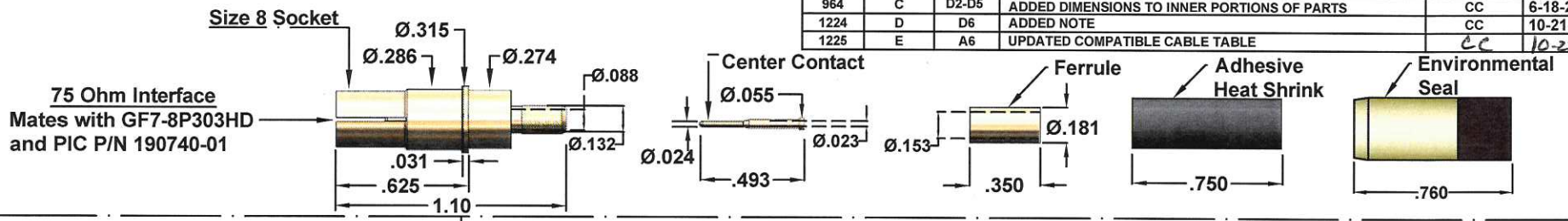
GF7-8S303HD is a drop in replacement for Pic's 190741-01

REVISIONS					
ECN	REVISION	ZONE	DESCRIPTION OF CHANGE	APPROVED	DATE
159	NR	-	INITIAL RELEASE	KMK	9/19/2019
205	A	4A/B	CORRECTED TOOLING IN NOTE 3 AND 6	KMK	1-10-2020
262	B	FD	ADDED DIMENSIONS AND CHANGED APPEARANCE OF PARTS	KMK	4-29-2020
964	C	D2-D5	ADDED DIMENSIONS TO INNER PORTIONS OF PARTS	CC	6-18-2024
1224	D	D6	ADDED NOTE	CC	10-21-2025
1225	E	A6	UPDATED COMPATIBLE CABLE TABLE	CC	10-22-25



1.0 PERFORMANCE

1.1 Frequency range: DC - 4 GHz
1.2 Nominal impedance: 75 Ohms
1.3 VSWR: 1.3:1 Max
1.4 Insertion loss: .3 dB Max
1.5 Working voltage: 750Vrms @ sea level
1.6 DWV: 1000Vrms @ sea level
1.7 Insulation resistance: 5000 Megohms

2.0 MATERIALS

2.2 Body: BeCu per ASTM-B-196
2.2 Contact: BeCu per ASTM-B-196
2.3 Dielectric: PTFE per ASTM-D-1710, type I, GR.1, CLA
2.4 Ferrule: Brass per ASTM-B-16
2.5 Environmental Seal: SI Rubber + Thermoplastic
2.6 Heat shrink: ATUM PER MIL-I-23053/4, Class 2

3.0 FINISHES

3.1 Body, Ferrule and Contact: Gold

4.0 MECHANICAL

4.1 Interface: SAE-AS39029/59 (75 Ohm Interface)
4.2 Termination style: Cable contact-solder or crimp, Crimp ferrule

5.0 APPLICATIONS

5.1 MIL-DTL-38999 Series I, III, and IV

6.0 Extraction Tool

6.1 MIL-I-81969/14-12

Compatible Cable	Mates With
GF7-303D	GF7-8P303HD-01
GF7-449D	GF7-8P303HD
GF7-TX303D	190740-01
V75268	190940-01
V73263	190701
V76261	190901

RoHS Compliant

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 6. Care should be taken not to nick the center conductor and shield.

S1 - .140
S2 - .210
S3 - .525

3) Install contact onto cable conductor flush with dielectric. Contact can be crimped or soldered. When crimping use K1759 positioner (selector 3) with hand tool M22520/2-01 or equivalent.

4) Fold all shields back perpendicular to cable using a tweezers. You may need to slit the aluminum foil before folding back.

5) Slide the connector onto the cable. 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 Y187 die (0.156 hex) with hand tool M22520/5-01 or equivalent.

7) After crimping ferrule apply adhesive heat shrink over back end of connector.

DESIGNED BY:	DATE:	CHECKED BY:	DATE:	APPROVED BY:	DATE:
C CHAPMAN	9/18/2019	B HACKETT	9/18/2019	C CHAPMAN	9/18/2019

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

GIGAFLIGHT CONNECTIVITY INC.
6180 Industrial Ct. Greendale WI, 53129
Tel: 414-488-6320 Fax: 414-433-9041

DESCRIPTION: 75 OHM M39029 SIZE 8 SOCKET FOR GIGAFLIGHT CABLE GF7-303D/GF7-449D

CAGE CODE:	PART NUMBER:	SHEET:
8A8D5	GF7-8S303HD	1 OF 1