

"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



GHS4-M Wired Micro-D Connector with VersaLink Contacts

MATERIALS AND FINISHES

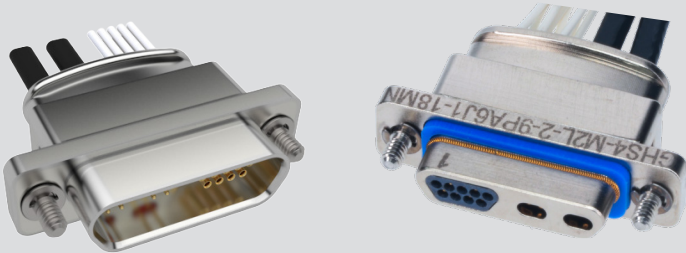
- Connector shell: aluminum alloy 6061
- Insulator (v): rigid dielectric
- Insulator (m): liquid crystal polymer (LCP) or polyphenylene sulfide (PPS)
- Flange seal: fluorosilicone rubber, blue
- Pin contact: copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating
- Ground spring: stainless steel, gold plating
- Ground pin:
- Hardware: 300 series stainless steel, passivated
- Encapsulant: epoxy resin hysol EE4215 and Duralco 120

PERFORMANCE SPECIFICATIONS

- Current rating: 3 amp (Micro-D contacts)
- DWV: 600 VAC sea level
- Insulation resistance: 5000 megohms minimum
- Operating temperature: -55° C to +150° C
- Mating force (contact m): (10 ounces) x (# of contacts)
- Mating force (contact v): (5 ounces) x (# of contacts)
- Electrical performance IAW Glenair specification GT-19-230
- Interface dimensions IAW MIL-DTL-83513

NOTES

1. Refer to GHS4-M-1000 for insert arrangement details on page 94.
2. Refer to GHS4-M-1001 for wire diagrams on page 96.
3. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts. GP and GS cable ends rotated 180° out of phase due to connector symmetry.
4. Omit wire information when contact layout "M" = 0. (e.g, 1-0, 2-0, 4-0, 10-0).
5. Hardware always required to ensure connector pair is fully mated when installed.
6. Refer to 500-154 for protective cover on page 164.
7. Glenair VersaLink Micro-D pre-wired connectors are only available factory terminated.

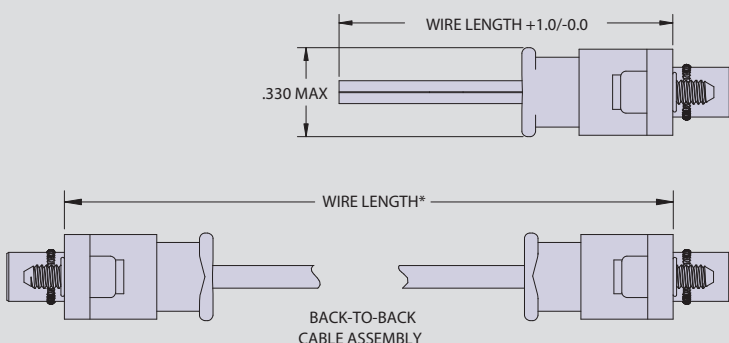


PART NUMBER DEVELOPMENT												
Sample Part Number	GHS4-M	2	L	2-9	P	C	6	J	1	-18	R	N
Series	GHS4-M = Wired VersaLink Micro-D											
Shell Finish	2 = Nickel 5 = Gold											
Insulator Material	L = LCP or PPS											
Contact Layout (V-M)1	1-0, 1-9, 2-0, 2-9, 2-15, 2-21, 3-9, 4-0, 4-15, 4-31, 8-9, 10-0											
Connector Type3	P = Plug (Single-End) S = Receptacle (single-end) GP = Double-end cable, plug connectors both ends GS = Double-end cable, receptacle connectors both ends CS = Double-end cable, plug and rcpt											
VersaLink Cable Type	B = 963-068-26 (100 Ohm) C = 963-069-26 (100 Ohm) See VersaLink Contact Section											
Discrete Wire Gage (AWG)4	4 = #24 6 = #26 8 = #28 0 = #30 (J Wire Type Only)											
Discrete Wire Type4	K = M22759/11 600 VRMS Teflon (TFE) J = M22759-33 600 VRMS modified cross-linked Tefzel (ETFE) E = NEMA HP3-EB 600 VRMS Type E, M16878/4 (TFE)											
Discrete Wire Color4	1 = White 5 = Color-coded stripes per MIL-STD-681 7 = Ten color repeating											
Wire Length	Wire length in inches. "18" equals 18in. 6 inches minimum											
Hardware5 (see mounting hardware table)	P, M, S, L; see mounting hardware Rear panel mount jackposts (Length in Inches): R1 = .032 panel R2 = .047 panel R3 = .062 panel R4 = .093 panel R5 = .125 panel R6 = .080 panel											
Shield and Jacket Option	X - ArmorLite braided microfilament stainless steel shield with E-Ctfe Halar "Expando" jacket W - ArmorLite braided microfilament stainless steel shield Z - 75% Braided AmberStrand shield with E-Ctfe Halar "Expando" Jacket V - 75% braided AmberStrand shield T - 100% braided AmberStrand shield with E-Ctfe Halar "Expando" jacket S - 100% braided AmberStrand shield C - Braided shield (nickel over copper) with E-Ctfe Halar "Expando" Jacket A - Braided shield (nickel over copper) N - No shield, no jacket (customer to install)											

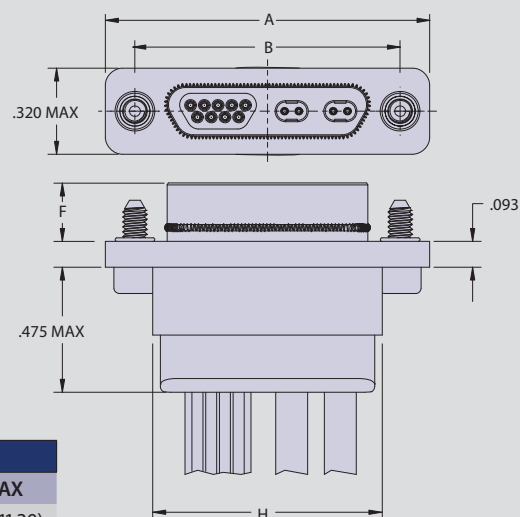
"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



GHS4-M Wired Connector with VersaLink Contacts



* WIRE LENGTH TOLERANCE UP TO 60" +2"/-0"; GREATER THAN 60" +3%/-0%.



DIMENSIONS

LAYOUT	A MAX	B±.003	C MAX	D MAX	F±.003	H MAX
1-OP	0.785 (19.94)	0.565 (14.35)	0.333 (8.46)	0.184 (4.67)	0.213 (5.41)	0.445 (11.30)
1-OS	0.785 (19.94)	0.565 (14.35)	0.400 (10.16)	0.250 (6.35)	0.225 (5.72)	0.445 (11.30)
2-OP	0.935 (23.75)	0.715 (18.16)	0.483 (12.27)	0.184 (4.67)	0.213 (5.41)	0.595 (15.11)
2-OS	0.935 (23.75)	0.715 (18.16)	0.551 (14.00)	0.250 (6.35)	0.225 (5.72)	0.595 (15.11)
1-9P	1.085 (27.56)	0.865 (21.97)	0.633 (16.08)	0.184 (4.67)	0.213 (5.41)	0.745 (18.92)
1-9S	1.085 (27.56)	0.865 (21.97)	0.701 (17.81)	0.250 (6.35)	0.225 (5.72)	0.745 (18.92)
2-9P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.213 (5.41)	0.845 (21.46)
2-9S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.225 (5.72)	0.845 (21.46)
4-OP	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.213 (5.41)	0.845 (21.46)
4-OS	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.225 (5.72)	0.845 (21.46)
2-15P	1.335 (33.91)	1.115 (28.32)	0.833 (21.16)	0.184 (4.67)	0.213 (5.41)	0.995 (25.27)
2-15S	1.335 (33.91)	1.115 (28.32)	0.951 (24.16)	0.250 (6.35)	0.225 (5.72)	0.995 (25.27)
2-21P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	0.184 (4.67)	0.213 (5.41)	1.145 (29.08)
2-21S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	0.225 (5.72)	1.145 (29.08)
3-9P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	0.184 (4.67)	0.213 (5.41)	1.145 (29.08)
3-9S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	0.225 (5.72)	1.145 (29.08)
4-15P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	0.184 (4.67)	0.213 (5.41)	1.495 (37.97)
4-15S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	0.250 (6.35)	0.225 (5.72)	1.495 (37.97)
4-31P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
4-31S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)
8-9P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
8-9S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)
10-OP	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
10-OS	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)

INSERT ARRANGEMENTS

Insert Arrangements	No. of Contacts	
	VersaLink (V)	TwistPin (M)
1-0	1	0
2-0	2	0
1-9	1	9
2-9	2	9
4-0	4	0
2-15	2	15
2-21	2	21
3-9	3	9
4-15	4	15
4-31	4	31
8-9	8	9
10-0	10	0

MOUNTING HARDWARE

