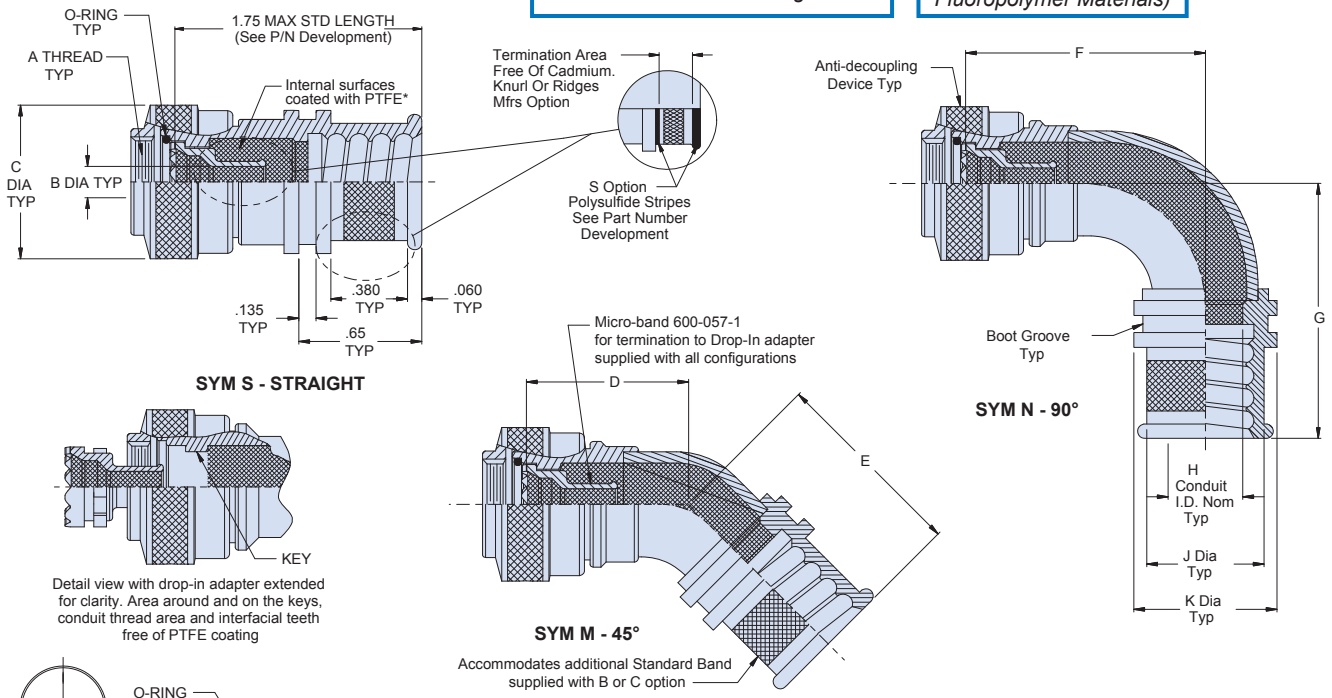
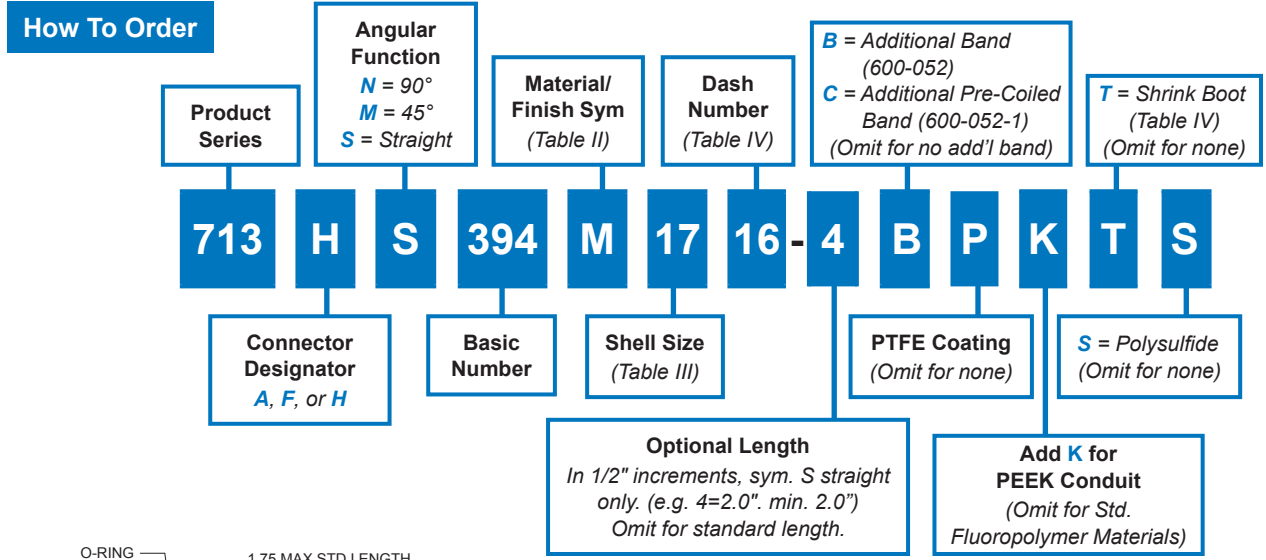


**Easy-to-install Hat Trick convoluted tubing-to-bulkhead fitting, metal**



**Material and Finish/Notes**

- Adapters, Hex Nuts: Table II (See P/N development)
  - Anti-decoupling device: Corrosion-resistant material
  - O-Ring - Silicone/N.A. • Band - SST/Passivate • Shrink Boot - See individual drawing.
  - Assembly supplied with Micro-Band (600-057-1) for shield termination onto the drop-in adapter. Options B and C are for additional Standard Band to terminate overall shielding.
- \*Internal surfaces coated with PTFE in area indicated, see P/N development.

713-394

## Hat Trick System

Environmental Self-Locking Metal Backshell with Drop-In and Band Termination for Series 74 Helical Convuluted Tubing

Series 74  
Helical Tubing

Table III: Connector Designator and Dimensions

Shell Size	A Thread			B Dia			C Dia Max	D Max	E Max	F Max	G Max
	Connector Designator A	Connector Designator F	Connector Designator H	A	F	H					
08/09	1/2-20 UNF	7/16-28 UNEF	M12 X 1.0-6H	.160 (4.1)	.138 (3.5)	.160 (4.1)	.94 (23.9)	1.000 (25.4)	1.220 (31.0)	1.158 (29.4)	1.380 (35.1)
10/11	5/8-24 UNEF	9/16-24 UNEF	M15 X 1.0-6H	.270 (6.9)	.248 (6.3)	.270 (6.9)	1.06 (26.9)	1.027 (26.1)	1.230 (31.2)	1.220 (31.0)	1.420 (36.1)
12/13	3/4-20 UNEF	11/16-24 UNEF	M18 X 1.0-6H	.390 (9.9)	.374 (9.5)	.390 (9.9)	1.17 (29.7)	1.027 (26.1)	1.230 (31.2)	1.220 (31.0)	1.420 (36.1)
14/15	7/8-20 UNEF	13/16-20 UNEF	M22 X 1.0-6H	.512 (13.0)	.455 (11.6)	.512 (13.0)	1.29 (32.8)	1.079 (27.4)	1.260 (32.0)	1.283 (32.6)	1.460 (37.1)
16/17	1-20 UNEF	15/16-20 UNEF	M25 X 1.0-6H	.610 (15.5)	.577 (14.7)	.627 (15.9)	1.42 (36.1)	1.105 (28.1)	1.260 (32.0)	1.345 (34.2)	1.500 (38.1)
18/19	1 1/16-18 UNEF	1 1/16-18 UNEF	M28 X 1.0-6H	.672 (17.1)	.672 (17.1)	.747 (19.0)	1.54 (39.1)	1.157 (29.4)	1.310 (33.3)	1.408 (35.8)	1.560 (39.6)
20/20	1 3/16-18 UNEF	1 3/16-18 UNEF	M31 X 1.0-6H	.797 (20.2)	.797 (20.2)	.891 (22.6)	1.67 (42.4)	1.183 (30.0)	1.360 (34.5)	1.470 (37.3)	1.640 (41.7)
22/23	1 5/16-18 UNEF	1 5/16-18 UNEF	M34 X 1.0-6H	.922 (23.4)	.922 (23.4)	.996 (25.3)	2.01 (51.1)	1.208 (30.7)	1.400 (35.6)	1.533 (38.9)	1.730 (43.9)
24/25	1 7/16-18 UNEF	1 7/16-18 UNEF	M37 X 1.0-6H	1.047 (26.6)	1.047 (26.6)	1.121 (28.5)	2.12 (53.8)	1.234 (31.3)	1.450 (36.8)	1.595 (40.5)	1.810 (46.0)

Table IV: Dash No. and Shrink Boot

Dash No.	H Conduit I.D. Nom	Ø J	Ø K	Shrink Boot Part Number
06	.188 (4.8)	.419 (10.6)	.481 (12.2)	<a href="#">770-001S103</a>
09	.281 (7.1)	.513 (13.0)	.575 (14.6)	<a href="#">770-001S104</a>
10	.312 (7.9)	.549 (13.9)	.611 (15.5)	<a href="#">770-001S104</a>
12	.375 (9.5)	.609 (15.5)	.671 (17.0)	<a href="#">770-001S104</a>
14	.437 (11.1)	.670 (17.0)	.732 (18.6)	<a href="#">770-001S104</a>
16	.500 (12.7)	.749 (19.0)	.811 (20.6)	<a href="#">770-001S105</a>
20	.625 (15.9)	.869 (22.1)	.931 (23.6)	<a href="#">770-001S106</a>
24	.750 (19.0)	1.029 (26.1)	1.091 (27.7)	<a href="#">770-001S106</a>
28	.875 (22.2)	1.172 (29.8)	1.234 (31.3)	<a href="#">770-001S107</a>
32	1.000 (25.4)	1.320 (33.5)	1.382 (35.1)	<a href="#">770-001S107</a>
40	1.250 (31.8)	1.664 (42.3)	1.726 (43.8)	<a href="#">770-001S108</a>
48	1.500 (38.1)	1.957 (49.7)	2.019 (51.3)	<a href="#">770-001S108</a>

Table II: Material/Finish

Sym	Material	Finish Description
M	Aluminum Alloy	Electroless Nickel
MT	Aluminum Alloy	Nickel-PTFE
NF	Aluminum Alloy	Cad/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)
Z1	300 Series SST	Passivate
ZN	Aluminum Alloy	Zinc Nickel/O.D. Over Electroless Nickel (1,000 Hour Salt Spray)

Table II continued

Sym	Material	Finish Description	Component
ZM	300 Series SST	Electroless Nickel	Adapters, Elbow
		Passivate	Coupling Nut
ZW	300 Series SST	Cad O.D. Over Electroless Nickel	Adapters, Elbow
		Cad Olive Drab	Coupling Nut