

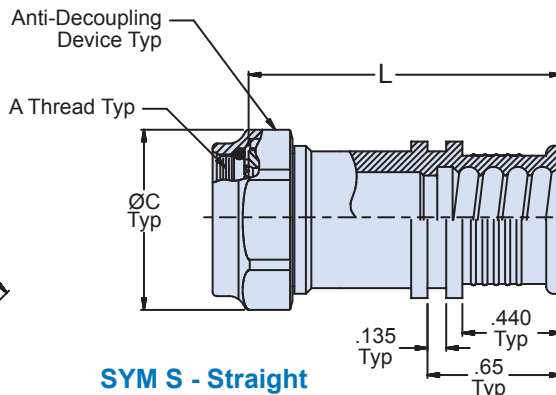
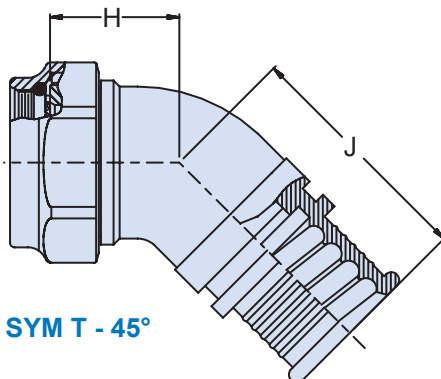
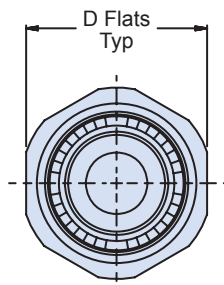
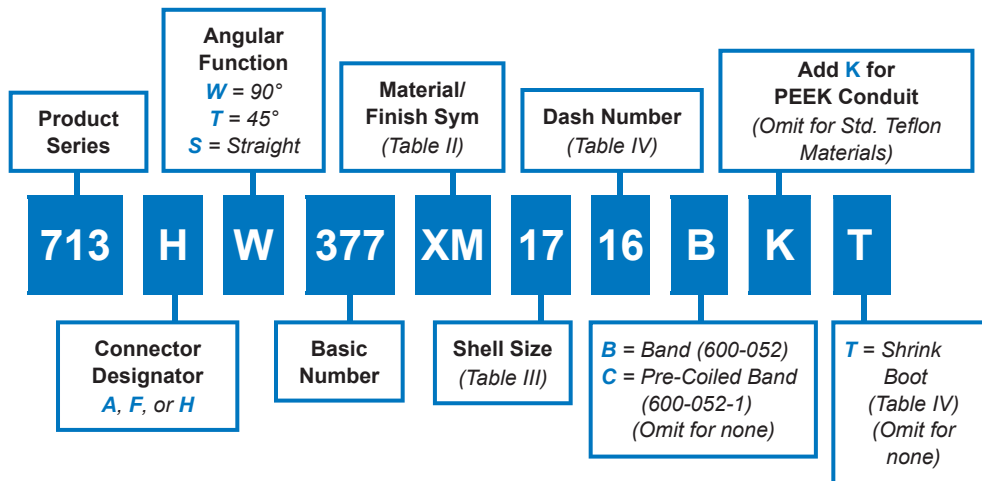


713-377  
**Hat Trick System**  
 Environmental Self-Locking Composite Backshell  
 with Band Termination for Series 74 Helical Convuluted Tubing

**Easy-to-install Hat Trick conduit-to-connector backshell, composite, self-locking, rotatable coupling**



**How To Order**



C Option  
Pre-Coiled Band

**Material and Finish**

- Adapters & Elbows: High grade engineering thermoplastic/see Table II
- Coupling Nuts - High grade engineering thermoplastic, black/no plating
- Anti-decoupling Device: Corrosion resistant material
- O-Ring: Silicone/NA
- Band: SST/Passivate
- Shrink Boot - See individual drawing.
- Interface O-Ring not applicable to connector designator A.

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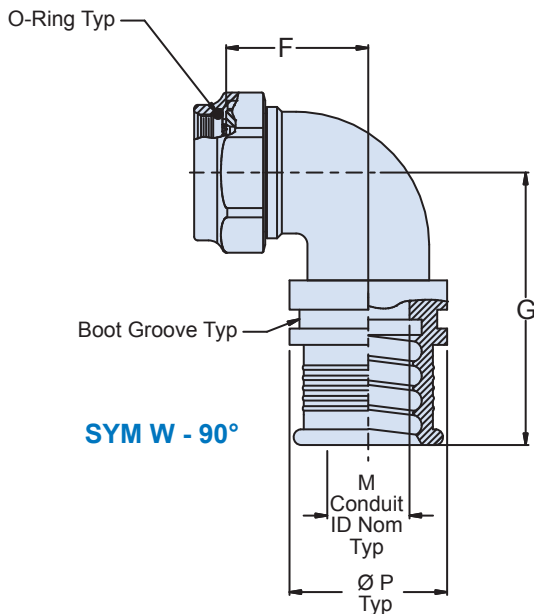


**Table III: Connector Designator and Dimensions**

Connector Designator A		Connector Designator F		Connector Designator H		Ø C Max	D Flats	
Shell Size	A Thread Class 2B	Shell Size	A Thread Class 2B	Shell Size	A Thread Iso Metric		Max	Min
08	1/2-20 UNF	08	7/16-28 UNEF	09	M12 X 1.0-6H	.830 (21.1)	.750 (19.1)	.736 (18.7)
10	5/8-24 UNEF	10	9/16-24 UNEF	11	M15 X 1.0-6H	.960 (24.4)	.875 (22.2)	.860 (21.8)
12	3/4-20 UNEF	12	11/16-24 UNEF	13	M18 X 1.0-6H	1.090 (27.7)	1.000 (25.4)	.980 (24.9)
14	7/8-20 UNEF	14	13/16-20 UNEF	15	M22 X 1.0-6H	1.220 (31.0)	1.125 (28.6)	1.100 (27.9)
16	1-20 UNEF	16	15/16-20 UNEF	17	M25 X 1.0-6H	1.350 (34.3)	1.250 (31.8)	1.224 (31.1)
18	1 1/16-18 UNEF	18	1 1/16-18 UNEF	19	M28 X 1.0-6H	1.480 (37.6)	1.375 (34.9)	1.348 (34.2)
20	1 3/16-18 UNEF	20	1 3/16-18 UNEF	21	M31 X 1.0-6H	1.620 (41.1)	1.500 (38.1)	1.469 (37.3)
22	1 5/16-18 UNEF	22	1 5/16-18 UNEF	23	M34 X 1.0-6H	1.750 (44.5)	1.625 (41.3)	1.581 (40.2)
24	1 7/16-18 UNEF	24	1 7/16-18 UNEF	25	M37 X 1.0-6H	1.890 (48.0)	1.750 (44.5)	1.690 (42.9)

**Table III (Cont.)**

Shell Size Connector Des. A, F	H	F Max	G Max	H Max	J Max	L Dim	Max Dash No. Table IV
10	11	.784 (19.9)	1.442 (36.6)	.782 (19.9)	1.263 (32.1)	1.30 (33.0)	14
12	13	.846 (21.5)	1.519 (38.6)	.777 (19.7)	1.321 (33.6)	1.36 (34.5)	20
14	15	.909 (23.1)	1.582 (40.2)	.785 (19.9)	1.362 (34.6)	1.42 (36.1)	24
16	17	.972 (24.7)	1.645 (41.8)	.807 (20.5)	1.382 (35.1)	1.49 (37.8)	28
18	19	1.034 (26.2)	1.683 (42.7)	.817 (20.8)	1.389 (35.3)	1.53 (38.9)	32
20	21	1.097 (27.9)	1.769 (44.9)	.847 (21.5)	1.425 (36.2)	1.59 (40.4)	40
22	23	1.159 (29.5)	1.832 (46.5)	.887 (22.5)	1.466 (37.2)	1.66 (42.2)	40
24	25	1.222 (31.0)	1.895 (48.1)	.917 (23.3)	1.492 (37.9)	1.72 (43.7)	48



**Table IV: Conduit Dash No. and Shrink Boot Part No.**

Dash No.	M Conduit ID Nom	Ø P	Shrink Boot Part Number
06	.188 (4.8)	.481 (12.2)	770-001S103
09	.281 (7.1)	.575 (14.6)	770-001S104
10	.312 (7.9)	.611 (15.5)	770-001S104
12	.375 (9.5)	.671 (17.0)	770-001S104
14	.437 (11.1)	.732 (18.6)	770-001S104
16	.500 (12.7)	.811 (20.6)	770-001S105
20	.625 (15.9)	.931 (23.6)	770-001S106
24	.750 (19.1)	1.091 (27.7)	770-001S106
28	.875 (22.2)	1.234 (31.2)	770-001S107
32	1.000 (25.4)	1.382 (35.1)	770-001S107
40	1.250 (31.8)	1.726 (43.9)	770-001S108
48	1.500 (31.8)	2.019 (53.3)	770-001S108

**Table II: Finish**

Sym	Finish Description
XMT	Nickel-PTFE - Grey (1,000 Hour Salt Spray)
XM	Electroless Nickel
XW	Cadmium/Olive Drab Over Electroless Nickel
XB	Black Color/Unplated