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**SECTION 1 - MECHANICAL
STRAIN RELIEF, EMI / RFI,
ENCLOSED RINGS, ENVIRONMENTAL
SAE AS85049 CATEGORY 1**

E * * 04

SHEET 1 OF 2

Add'l ENG Support Information

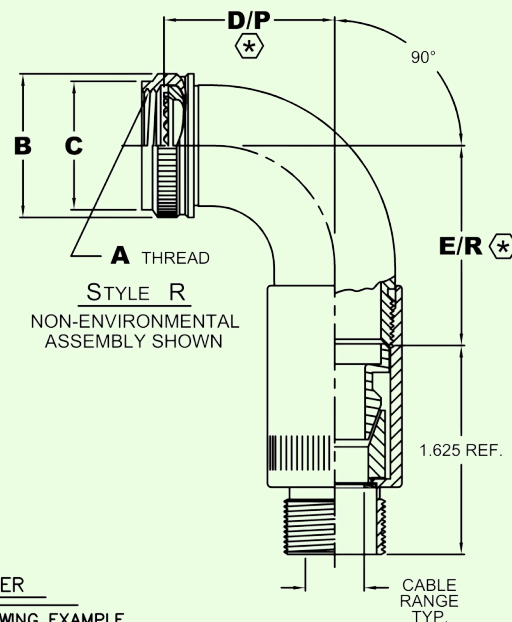
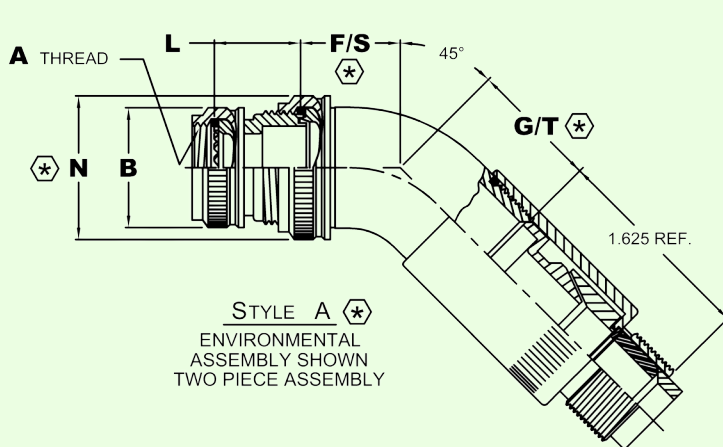
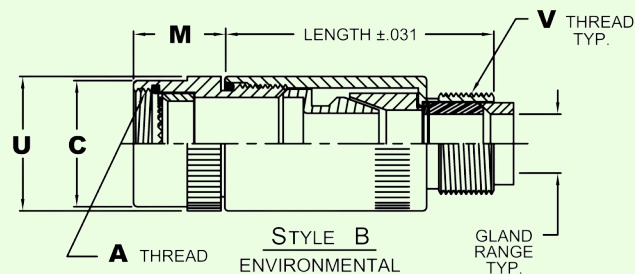
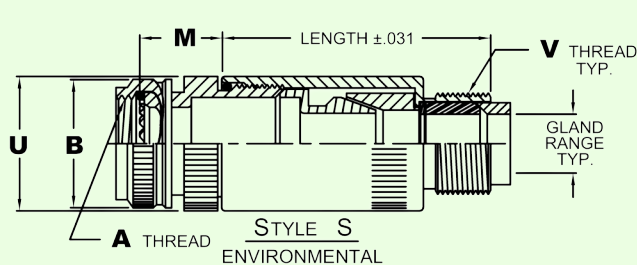
Table 2 - Environmental / Non-Environmental Cable Entry Data

ENTRY ORDER NUMBER	ENVIRONMENTAL		NON ENVIRONMENTAL		N	P	R	S	T	U	V
	GLAND MAX	RANGE MIN	CABLE MAX	RANGE MIN							
03	.250	.156	.250	.156	N/A	1.156	1.344	.875	.938	.750	.500-28
04	.312	.188	.312	.188	.734	1.219	1.406	.906	.969	.875	.625-24
06	.438	.281	.438	.281	.858	1.406	1.531	.969	1.031	1.000	.750-20
08	.562	.375	.562	.344	.984	1.531	1.656	1.031	1.094	1.125	.875-20
10	.625	.500	.625	.375	1.112	1.656	1.781	1.094	1.125	1.125	1.000-20
12	.750	.500	.750	.438	1.345	1.906	2.031	1.188	1.250	1.250	1.188-18
16	.938	.625	.938	.562	1.594	2.156	2.281	1.281	1.344	1.500	1.438-18
20	1.250	.938	1.250	.750	1.968	2.406	2.469	1.375	1.469	1.875	1.750-18
24	1.375	1.000	1.375	.781	2.219	2.656	2.719	1.500	1.594	2.125	2.000-18
28	1.625	1.250	1.625	.969	2.469	2.906	2.969	1.594	1.656	2.375	2.250-16
32	1.875	1.500	1.875	1.125	2.719	3.156	3.219	1.719	1.750	2.625	2.500-16

(*) DIMENSIONS D, E, F & G APPLY FOR ONE PIECE ASSEMBLY AS SHOWN
IN STYLE R. DIMENSIONS N, P, R, S & T APPLY FOR TWO PIECE ASSEMBLY
AS SHOWN IN STYLE A, WHEN CABLE ENTRY EXCEEDS CONNECTOR I.D.

Table 3

CONN CODE NUMBER	L MAX DIM.	M MAX DIM.
18	.875	1.500
19	.875	1.500
21	.875	1.125
30	1.032	.750
32	1.094	1.500
40	.750	.750
41	.750	.750
47	.750	.750
51	.875	.750
54	.750	1.250
61	1.094	1.000
76	.750	1.125



ASSEMBLY PART NUMBER

TO ESTABLISH YOUR P/N, USE THE FOLLOWING EXAMPLE

E 41 04 S 23 08 9 B 08 51

FUNCTION DESIGNATOR
E-EMI ADAPTER

CONNECTOR CODE NUMBER - TABLE 1 (6)

SERIES PART NUMBER

ADAPTER STYLE
B = STRAIGHT ADAPTER
R = 90° ADAPTER
A = 45° ADAPTER

ACCESSORY ORDER NUMBER-TABLE 1

CABLE ENTRY ORDER NUMBER-TABLE 2

MOD CODE (6)

PLATING CODE NUMBER-TABLE 4 (6)

LENGTH CODE NUMBER
LENGTHS ARE CHOSEN IN 1/4" INCREMENTS
(IE 08=2.00") SEE TABLE 3 FOR MINIMUM
INSERT 00 FOR R & A STYLE ADAPTERS

GLAND & O'RING MATERIAL OPTION
B - NEOPRENE & BUNA-N
S - SILICONE
N - NONE REQUIRED (NON ENVIROMENTAL)

CABLE STRAIN RELIEF - SEE TABLE V (8)

REV B

Table 1 - Order Number Data

E * * 04

SHEET 2 OF 2

Accessory Order Number By Connector Code & Shell Size

ORDER NUMBER	MS3100 SERIES MIL-DTL-5015 SOLDER CONTACT	MIL-DTL-26482 SERIES 1	MIL-DTL-22992 CLASS C, J & R	MIL-DTL-38999 SERIES III & IV	MIL-DTL-38999 SERIES I & II	MIL-DTL-5015 CRIMP MIL-DTL-26482 SER 2 MIL-DTL-83723 SER III	MIL-C-81703 NAS 1599	LITTON VEAM, CIR SERIES	MIL-C-81511 SERIES 1, 2, 3 & 4 PATT 105 PATT 603 PATT 608	A UNIFIED THREAD	B MAX DIA.	C MAX DIA.	(7) D ±.125 DIM.	E MAX DIM.	(7) F ±.125 DIM.	G MAX DIM.	ORDER NUMBER
	18 (4)	21	32 (2)	40 (3)	41	54	64	61	76								
01	8S (B)									.375-32	.750	.531					01
03	8S (A)									.438-27	.812	.594					03
04	8S (C)	8			8, 9				8	.438-28	.812	.594	1.125	1.188	.812	.875	04
05						8 & 8S				.500-20	.875	.656					05
06	10S (-)							8, A		.500-28	.875	.656					06
07				9, A						M12 x 1.0	.719	.656					07
08	10SL (C)	10			10, 11		3		10	.562-24	.844	.719					08
10	10SL (A,B), 12, 12S (B,C)					10, 10S, 10SL		12		.625-24	1.000	.781	1.250	1.312	.875	.938	10
11								10, B		.625-28	1.000	.781					11
12				11, B						M15 x 1.0	.844	.781					12
13	12 & 12S (A)	12			12, 13				12	.688-24	1.062	.844	1.375	1.438	.938	1.000	13
15	14 & 14S (-)		12			12 & 12S	7	14		.750-20	1.125	.906					15
16				13, C						M18 x 1.0	.969	.906					16
18		14			14, 15				14	.812-20	1.188	.969	1.500	1.562	1.000	1.062	18
19	16 & 16S (-)		14			14 & 14S	12	16		.875-20	1.250	1.031					19
20								14, D		.875-28	1.250	1.031					20
21				15, D						M22 x 1.0	1.094	1.031					21
23		16			16, 17				16	.938-20	1.312	1.094	1.625	1.688	1.062	1.125	23
24	18 (-)		16			16 & 16S	19	18		1.000-20	1.375	1.156					24
25								16, E		1.000-28	1.375	1.156					25
26				17, E						M25 x 1.0	1.219	1.156					26
28		18			18, 19	18	27		18	1.062-18	1.438	1.219					28
29	20 (-)		18					20		1.125-18	1.500	1.281	1.750	1.812	1.094	1.156	29
30	20 (R)									1.125-24	1.500	1.281					30
31								18, F		1.125-28	1.500	1.281					31
32				19, F						M28 x 1.0	1.344	1.281					32
34		20			20, 21	20	37		20	1.188-18	1.562	1.344	1.875	1.938	1.156	1.219	34
35	22 (-)		20					22		1.250-18	1.625	1.406					35
36								20, G		1.250-28	1.625	1.406					36
37				21, G						M31 x 1.0	1.469	1.406					37
39		22			22, 23	22			22	1.312-18	1.688	1.469	2.000	2.062	1.188	1.250	39
40	24 (-)		22					24		1.375-18	1.750	1.531					40
41								22, H		1.375-28	1.750	1.531					41
42				23, H						M34 x 1.0	1.594	1.531					42
44		24			24, 25	24			24	1.438-18	1.812	1.594					44
45							61			1.500-18	1.875	1.656	2.125	2.188	1.250	1.312	45
46								24, J		1.500-28	1.875	1.656					46
47				25, J						M37 x 1.0	1.719	1.656					47
48										1.562-18	1.938	1.719					48
49	28 (-)		24					28		1.625-18	2.000	1.781	2.375	2.625	1.344	1.625	49
51						28				1.750-18	2.125	1.906					51
52	32 (B,C)		28					32		1.875-16	2.250	2.031					52
53	32 (A,R)									1.906-18	2.281	2.062	2.625	3.000	1.438	1.812	53
54						32				2.000-18	2.375	2.156					54
55	36 (B)		32					36		2.062-16	2.469	2.219					55
56	36 (R)									2.062-24	2.469	2.219					56
57	36 (C)									2.125-16	2.500	2.281	2.875	3.250	1.562	1.938	57
58	36 (A)									2.125-18	2.500	2.281					58
59						36				2.250-16	2.625	2.406					59
60	40 (B)		36					40		2.312-16	2.719	2.469					60
61	40 (A,C)									2.375-16	2.750	2.531	3.125	3.500	1.688	2.062	61
62						40				2.500-16	2.875	2.656					62

NOTES: UNLESS OTHERWISE SPECIFIED.

1 THREADS ARE RIGHT HAND IN ACCORDANCE WITH FED-STD-H28, CLASS 2B.

(2) THREADS NOTED ARE LEFT HAND, CLASS 2B.

(3) THREADS NOTED ARE ISO METRIC, CLASS 6H.

(4) CODE 18 SHELL SIZES ARE FOLLOWED IN PARENTHESIS BY CONNECTOR MFR CODE. SEE CONNECTOR CODE 18 CHART AT RIGHT & EXAMPLE PART NUMBER FOR DETAILS.

5 TABLE 1 LISTS THE MOST USED CONNECTOR CODES. SEE SECTION 11 FOR OTHER CODES AVAILABLE AND COMPLETE CONNECTOR PART NUMBER CROSS REFERENCE.

(6) SEE SUPPORT DATA SECTION FOR PLATING AND MODIFICATION CODE OPTIONS.

(7) ADD .25 TO "D" & "F" FOR CONNECTOR CODES 30, 32 & 61.

(8) SEE SUPPORT DATA SECTION FOR TABLE V & AVAILABLE STYLES

(4) Connector Code 18 Chart

CONNECTOR CODE	CONNECTOR MANUFACTURER (MS3100, MS3101, MS3106 & MS3107)
A	AMPHENOL, CLASS A
B	BENDIX, CLASS A, E & R
C	CANNON, CLASS A, E & R
D	MFR. UNKNOWN, CLASS A, E & R
R	AMPHENOL, CLASS R
-	MFR. CODE NOT REQUIRED

REV B