



ELECTRO ADAPTER INC.
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SECTION 1 - MECHANICAL
STRAIN RELIEF, EMI / RFI , DUAL BEVEL
RINGS , ENVIRONMENTAL , LOW PROFILE
SAE AS85049 CATEGORY 1

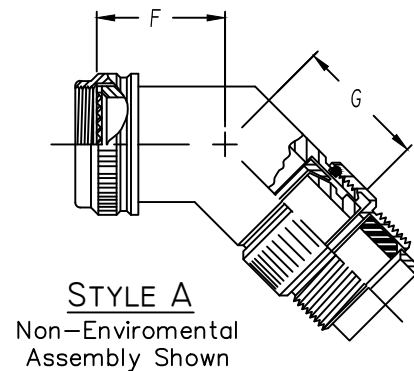
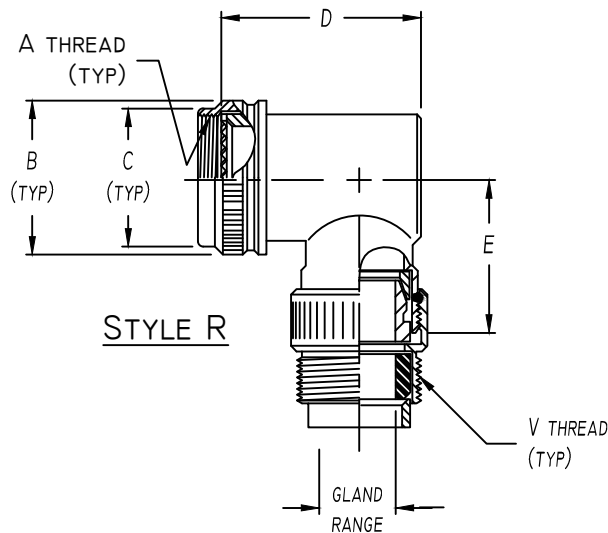
E * * 30

SHEET 1 OF 2

Table 2 - Cable Entry Data

ENTRY ORDER NUMBER	ENVIRONMENTAL		NON ENVIRONMENTAL		V UNIFIED THREAD
	GLAND MAX	RANGE MIN	CABLE MAX	RANGE MIN	
03	.250	.156	.250	.156	.500-28
04	.312	.188	.312	.188	.625-24
06	.438	.281	.438	.281	.750-20
08	.562	.375	.562	.344	.875-20
10	.625	.500	.625	.375	1.000-20
12	.750	.500	.750	.438	1.188-18
16	.938	.625	.938	.562	1.438-18
20	1.250	.938	1.250	.750	1.750-18
24	1.375	1.000	1.375	.781	2.000-18
28	1.625	1.250	1.625	.969	2.250-16
32	1.875	1.500	1.875	1.125	2.500-16

WHEN MAXIMUM CABLE ENTRY EXCEEDS THE
CONNECTOR INTERFACE DIAMETER, A 2 PIECE
ADAPTER WILL BE SUPPLIED.



ASSEMBLY PART NUMBER

TO ESTABLISH YOUR P/N, USE THE FOLLOWING EXAMPLE

E 41 30 S 23 08 9 B 51

FUNCTION DESIGNATOR
E-EMI ADAPTER

CONNECTOR CODE NUMBER - TABLE 1 (6)

SERIES PART NUMBER

ADAPTER STYLE
S = STRAIGHT SPIN COUPLING ADAPTER
B = STRAIGHT BASIC ADAPTER
R = 90° ADAPTER
A = 45° ADAPTER

ACCESSORY ORDER NUMBER-TABLE 1

MOD CODE (6)

PLATING CODE NUMBER-TABLE 4 (6)

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

CABLE STRAIN RELIEF - SEE TABLE V (8)

CABLE ENTRY ORDER NUMBER-TABLE 2

Table 1 - Order Number Data

E * * 30

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-22982 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 803 PATT 608	A UNIFIED THREAD	B MAX DIA.	C MAX DIA.	D(7) MAX DIM.	E MAX DIM.	D(7) ±.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	1.031		.500		01
03	8S (A)											.438-27	.812	.594	1.094		.500		03
04	8S (C)	8			8, 9				8			.438-28	.812	.594	1.000	1.188	.750		04
05						8 & 8S						.500-20	.875	.656	.938		.719	1.062	05
06	10S (-)							8, A				.500-28	.875	.656	1.562		1.062		06
07				9, A								M12 x 1.0	.719	.656	.938	1.250	.500		07
08	10SL (C)	10			10, 11		3		10			.562-24	.844	.719	1.375		.750		08
10	10SL(A,B), 12, 12S(B,C)					10, 10S, 10SL		12				.625-24	1.000	.781	1.562		1.062		10
11								10, B				.625-28	1.000	.781	1.688	1.312	1.062	1.094	11
12				11, B								M15 x 1.0	.844	.781	1.125		.500		12
13	12 & 12S (A)	12		12, 13					12			.688-24	1.062	.844	1.500		.750		13
15	14 & 14S (-)		12			12 & 12S	7	14				.750-20	1.125	.906	1.812		.875		15
16				13, C								M18 x 1.0	.969	.906	1.188	1.375	.562	1.125	16
18		14			14, 15				14			.812-20	1.188	.969	1.500		.812		18
19	16 & 16S (-)		14			14 & 14S	12	16				.875-20	1.250	1.031	1.875		.750		19
20								14, D				.875-28	1.250	1.031	1.938	1.438	1.125		20
21				15, D								M22 x 1.0	1.094	1.031	1.312		.562		21
23		16			16, 17				16			.938-20	1.312	1.094	1.625		.875		23
24	18 (-)		16			16 & 16S	19	18				1.000-20	1.375	1.156	2.000		.719		24
25								16, E				1.000-28	1.375	1.156	2.062	1.500	1.156		25
26				17, E								M25 x 1.0	1.219	1.156	1.438		.594	1.188	26
28		18			18, 19	18	27		18			1.062-18	1.438	1.219	1.688		.875		28
29	20 (-)		18					20				1.125-18	1.500	1.281	2.156		.938		29
30	20 (R)											1.125-24	1.500	1.281	1.938	1.562	.625		30
31								18, F				1.125-28	1.500	1.281	2.125		1.188		31
32				19, F								M28 x 1.0	1.344	1.281	1.500		.625		32
34		20			20, 21	20	37		20			1.188-18	1.562	1.344	1.812		.875		34
35	22 (-)		20					22				1.250-18	1.625	1.406	2.250		.938		35
36								20, G				1.250-28	1.625	1.406	2.250	1.625	1.250	1.219	36
37				21, G								M31 x 1.0	1.469	1.406	1.625		.688		37
39		22			22, 23	22			22			1.312-18	1.688	1.469	1.938		.938		39
40	24 (-)		22					24				1.375-18	1.750	1.531	2.375		1.000		40
41								22, H				1.375-28	1.750	1.531	2.375		1.250		41
42				23, H								M34 x 1.0	1.594	1.531	1.750		.656	1.250	42
44		24			24, 25	24			24			1.438-18	1.812	1.594	2.000	1.688	1.000		44
45							61					1.500-18	1.875	1.656	1.875		.938	1.438	45
46								24, J				1.500-28	1.875	1.656	2.500		1.250		46
47				25, J								M37 x 1.0	1.719	1.656	1.875		.688	1.250	47
48												1.562-18	1.938	1.719	2.125		1.062		48
49	28 (-)		24					28				1.625-18	2.000	1.781	2.500	1.812	1.250	1.312	49
51						28						1.750-18	2.125	1.906	2.062		.938		51
52	32 (B,C)		28					32				1.875-16	2.250	2.031	2.750	1.938	1.125	1.344	52
53	32 (A,R)											1.906-18	2.281	2.062	2.438		.750		53
54						32						2.000-18	2.375	2.156	2.312		.969		54
55	36 (B)		32					36				2.062-16	2.469	2.219	3.000		.969		55
56	36 (R)											2.062-24	2.469	2.219	1.875	2.062	.812	1.406	56
57	36 (C)											2.125-16	2.500	2.281	1.875		.812		57
58	36 (A)											2.125-18	2.500	2.281	1.875		.812		58
59						36						2.250-16	2.625	2.406	2.438		1.031		59
60	40 (B)		36					40				2.312-16	2.719	2.469	3.250	2.188	1.000	1.438	60
61	40 (A,C)											2.375-16	2.750	2.531	2.000		.875		61
62						40						2.500-16	2.875	2.656	2.688	2.750	1.125	1.500	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	CONNECTOR MANUFACTURER
CODE	(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



STANDARD FINISHES ²

PLATING CODE	FINISH	SPECIFICATION	ACCESSORY MATERIAL	CORROSION ¹ RESISTANCE (HRS)	ROHS COMPLIANT
0 3	CADIUM PLATE, OLIVE DRAB	SAE AMS-QQ-P-416, TYPE II, CLASS 3	ALUMINUM	96	NO
1 0	PASSIVATE	SAE AMS-QQ-P-35, (AS85049 CODE S)	STAINLESS STEEL	1000	YES
1 2	ZINC NICKEL, BLACK	ASTM B841	ALUMINUM	500	YES
1 3	ZINC COBALT, OLIVE DRAB	ASTM B840-99	ALUMINUM	96	NO
1 4	ZINC COBALT, BLACK	ASTM B840-99	ALUMINUM	96	NO
2 1	IRIDITE, 14-2, GOLD	IRIDITE, NUMBER 14-2 PER MIL-DTL-5541 CL 3	ALUMINUM	96	NO
3 4	ANODIZE, BLACK	MIL-A-8625, TYPE II, CL 3 (AS85049 CODE A)	ALUMINUM	1000	YES
3 5	ANODIZE ,GREY	MIL-A-8625, TYPE II, CLASS 2	ALUMINUM	500	YES
4 4	ANODIZE, HARD, BLACK	MIL-A-8625, TYPE II, CLASS 2	ALUMINUM	500	YES
4 5	ANODIZE, HARD, GREY	MIL-A-8625, TYPE II, CLASS 2	ALUMINUM	1000	YES
4 8	ELECTROLESS NICKEL	AMS-2404F, CLASS 4, GRADE B	STAINLESS STEEL	48	NO
5 1	ELECTROLESS NICKEL	AMS-2404F, CLASS 4, GRADE B	ALUMINUM	48	NO
5 5	CADIUM PLATE, OLIVE DRAB, OVER ELECTROLESS NICKEL	SAE AMS-QQ-P-416, TYPE II, CLASS 3, OVER ELECTROLESS NICKEL, PER AMS-2404F (AS85049 CODE W)	ALUMINUM	1000	NO
5 6	ELECTROLESS NICKEL	AMS-2404F, CLASS 4, GRADE A	ALUMINUM	96	NO
5 6 R	ELECTROLESS NICKEL	AMS-2404F, CLASS 4, GRADE A	ALUMINUM	48	YES
5 7	ELECTROLESS NICKEL	AMS-2404F, CLASS 4, GRADE A (AS85049 CODE N)	ALUMINUM	96	NO
64	CADIUM PLATE, OLIVE DRAB, OVER ELECTROLESS NICKEL	³ SAE AMS-QQ-P-416, TYPE II, CLASS 3, OVER ELECTROLESS NICKEL, PER AMS-2404F (SELECTIVE PLATING REF AS85049 CODE P)	ALUMINUM	1000	NO
85	PASSIVATED	SAE AMS-QQ-P-35	316 SST	1000	YES
87	BEAD BLASTED	N/A	NI. ALUM. BRONZE	1000	YES

NOTES: UNLESS OTHERWISE SPECIFIED

- CORROSION RESISTANCE IS SPECIFIED FOR SALT SPRAY IN ACCORDANCE WITH AS85049
- ² CONSULT FACTORY FOR OTHER FINISHES
- ³ FINISHES ARE APPLICABLE TO THE CONNECTOR ACCESSORIES ONLY AND EXCLUDE FASTENERS AND OTHER HARDWARE
- EMI/RFI ACCESSORIES ARE SUPPLIED WITH CONDUCTIVE FINISHES ONLY
- ANODIZE NOT SUITABLE FOR EMI SHIELDING OR GROUNDING APPLICATIONS
- ALL THE CONDUCTIVE FINISHES USED ON ALUMINUM CAN ALSO BE USED ON BRASS (CONSULT FACTORY)
- ⁷ CADMIUM/NICKEL INTERFACE SHALL BE COATED WITH POLYSULFIDE SEALANT (REF FIGURE 2 BELOW)

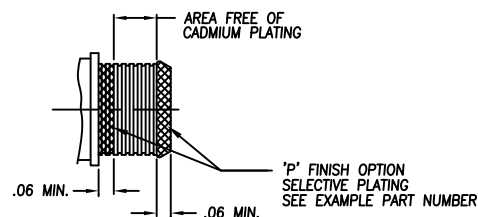


FIGURE 2



ELECTRO ADAPTER INC.
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SUPPORT DATA
STANDARD
FINISHES & MATERIALS

TABLE IV
SHEET 2 OF 2

STANDARD MATERIALS

COMPONENT	MATERIAL	SPECIFICATION
MACHINED COMPONENTS	ALUMINUM STAINLESS STEEL (300 SERIES) BRASS NICKEL ALUMINUM BRONZE	ASTM B221, ASTM B211 (MFG OPTION) AMS-QQ-S-763, QQ-S-764 (MFG OPTION) QQ-B-626 ASTMB150 (AMS4640)
DIE CAST COMPONENTS	ALUMINUM	ASTM B 85
FASTENERS AND HARDWARE	STAINLESS STEEL (300 SERIES) STEEL BRASS	AMS-QQ-S-763 SAE20, QQ-S-634, QQ-S-637 QQ-B-626
ELASTOMERIC SEALS	SILICONE BUNA-N NEOPRENE	ZZ-R-765B, MIL-R-25988 AMS-3209 MIL-R-3065

NOTES: UNLESS OTHERWISE SPECIFIED

1. THE SPECIFIED MATERIALS ARE STANDARD FOR THE MAJORITY OF CONNECTOR ACCESSORIES
2. CONSULT FACTORY FOR OTHER MATERIALS
3. FOR DOCUMENTS LISTED WITHIN THIS CATALOG WITH OUT A TOLERANCE SHOWN SHALL HAVE TOLERANCES AS FALLOWED:
.X = $\pm .2$
.XX = $\pm .12$
.XXX = $\pm .062$
X° = $\pm 10^{\circ}$



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SUPPORT DATA

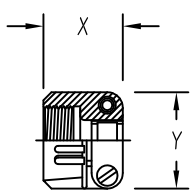
TABLE V CABLE STRAIN RELIEF STYLES

TABLE V

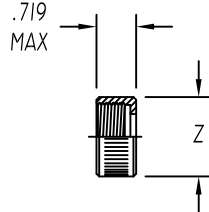
SHEET 1 OF 1

Table 2 - Environmental / Non-Environmental Cable Entry Data

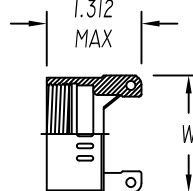
ENTRY ORDER NUMBER	ENVIRONMENTAL		NON ENVIRONMENTAL		V	R	S	T	U	W	X	Y	Z
	GLAND RANGE		CABLE RANGE		UNIFIED	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
	MAX	MIN	MAX	MIN	THREAD	DIM.	DIM.	DIM.	DIM.	DIM.	DIM.	DIM.	DIA.
03	.250	.156	.250	.156	.500-28	N / A	.812	1.375	.812	N / A	.844	.781	.656
04	.312	.188	.312	.188	.625-24	1.031	.937	1.375	.937	.875	.844	.906	.781
06	.438	.281	.438	.281	.750-20	1.031	1.062	1.375	1.062	1.000	.906	1.094	.906
08	.562	.375	.562	.344	.875-20	1.031	1.188	1.375	1.188	1.125	.969	1.188	1.031
10	.625	.500	.625	.375	1.000-20	1.094	1.312	1.437	1.312	1.250	.969	1.281	1.156
12	.750	.500	.750	.438	1.188-18	1.219	1.562	1.437	1.562	1.375	.969	1.500	1.344
14	.875	.750	.875	.719	1.250-18	N / A	N / A	N / A	N / A	1.500	N / A	N / A	N / A
16	1.000	.844	1.000	.781	1.438-18	1.219	1.750	1.562	1.750	1.625	1.062	1.719	1.594
20	1.250	.938	1.250	.750	1.750-18	1.344	2.250	1.812	2.250	1.750	1.125	2.062	1.906
24	1.375	1.000	1.375	.781	2.000-18	N / A	2.375	2.062	2.375	N / A	1.188	2.312	2.156
28	1.625	1.250	1.625	.969	2.250-16	N / A	2.625	2.062	2.625	N / A	1.719	2.719	2.406
32	1.875	1.500	1.875	1.125	2.500-16	N / A	2.812	2.188	2.812	N / A	1.781	2.969	2.656



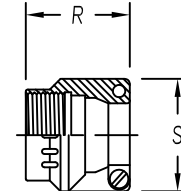
STYLE 1
AS85049/41A CLAMP
(MS 3057**A)



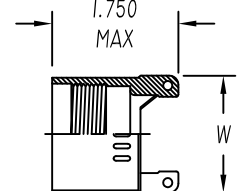
STYLE 2
NUT



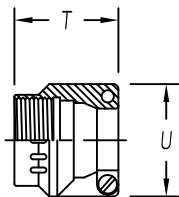
STYLE 3
NON-ENVIRONMENTAL



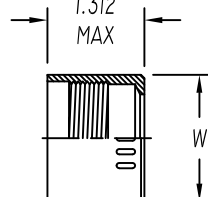
STYLE 3
NUT
ENVIRONMENTAL
(AS85049/1)
(MS 3057**B)



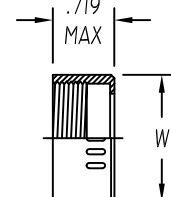
STYLE 3
ENVIRONMENTAL



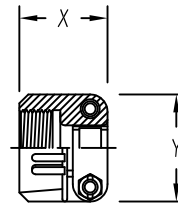
STYLE 4
STRAIN RELIEF
ENVIRONMENTAL
(AS85049/2)
(MS 3057**C)



STYLE 4
ENVIRONMENTAL



STYLE 4
NON-ENVIRONMENTAL



STYLE 9
STRAIN-RELIEF CLAMP
WITH TELESCOPING SCREWS

NOTES: UNLESS OTHERWISE SPECIFIED

AVAILABLE ONLY ON: A**01, A**30, E**01, E**03, E**04, E**05, E**07, E**21, E**30, & E**33

AVAILABLE ONLY ON: E**15, E**17, E**38, E**40, & E**41

3. CONSULT FACTORY FOR SIZES AND INFORMATION NOT LISTED