ELECTRO ADAPTER INC.
CHATSWORTH, CALIFORNIA, USA 91311
PHONE :(818) 998-1198
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SECTION 1 - MECHANICAL
STRAIN RELIEF , EMI / RFI
DUAL BEVEL RINGS , SPLIT SHELL
SAE AS85049 CATEGORY 3

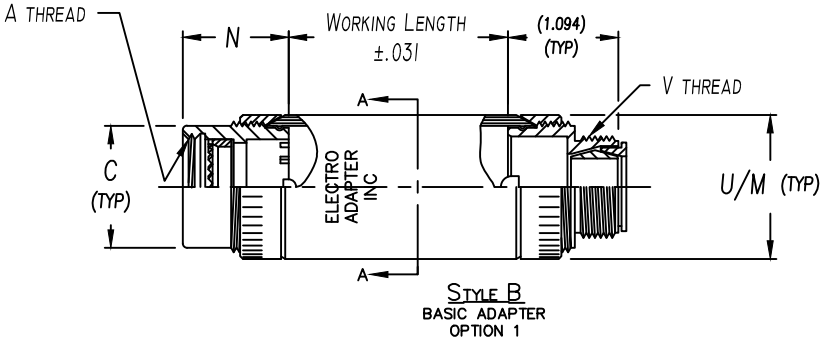
Table 2 - Cable Entry Data

ENTRY ORDER NUMBER	ENVIRONMENTAL GLAND RANGE		NON ENVIRONMENTAL CABLE RANGE		**V** UNIFIED THREAD
	MAX	MIN	MAX	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

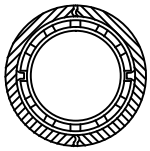
WHEN MAXIMUM CABLE ENTRY EXCEEDS THE CONNECTOR INTERFACE DIAMETER, A 2 PIECE ADAPTER WILL BE SUPPLIED.

Table 3 - Length Code Data

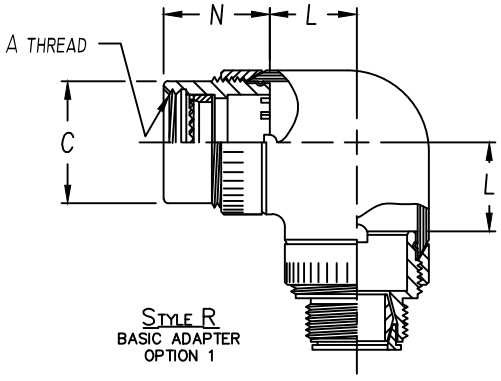
CONN CODE NUMBER	**N** MAX	**M** ±.031 DIA. BY ACCESSORY ORDER NUMBER			
		1.250	1.469	1.688	1.875
18	1.250	01 - 19	24 - 30	35, 40	49
19	1.188	04 - 19	24, 29	35, 40	49
21	1.000	04 - 23	28, 34	39, 44	-
30	1.375	15, 19	24, 29	35, 44	48
32	1.625	15, 19	24, 29	35, 40	49
40	1.062	07 - 21	26, 32	37, 47	-
41	1.000	04 - 23	28, 34	39, 44	-
47	1.000	04 - 23	28, 34	39, 44	-
51	1.000	04 - 23	28, 34	39, 44	-
54	.719	05 - 19	24 - 34	39, 44	51
61	.875	06 - 25	31	36, 41	46
76	1.000	04 - 23	28, 34	39, 44	-
		.750	.875	1.000	1.125
		L ±.062 DIA. BY ACCESSORY ORDER NUMBER			



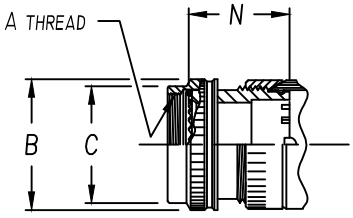
STYLE B
BASIC ADAPTER
OPTION 1



SECTION A



STYLE R
BASIC ADAPTER
OPTION 1



SPIN COUPLING
OPTION 2
ONLY AVAILIBLE FOR CONNECTOR CODES 30, 40, 41, 54, & 61

ASSEMBLY PART NUMBER

TO ESTABLISH YOU P/N, USE THE FOLLOWING EXAMPLE

E 41 03 S 23 08 9 08 1 51

- FUNCTION DESIGNATOR E–EMI ADAPTER
- CONNECTOR CODE NUMBER – TABLE 1 ⑥
- SERIES PART NUMBER
- ADAPTER STYLE B = STRAIGHT ADAPTER R = 90° ADAPTER
- ACCESSORY ORDER NUMBER–TABLE 1
- CABLE ENTRY ORDER NUMBER–TABLE 2
- CABLE STRAIN RELIEF – SEE TABLE V ⑧
- WORKING LENGTH CODE NUMBER 01=.250 06=1.500 08=2.000 10=2.500 12=3.000 INSERT 00 FOR R STYLE ADAPTER
- SPIN COUPLING OPTION 1 – SOLID ADAPTER 2 – SPIN COUPLING ADAPTER
- PLATING CODE NUMBER–TABLE 4 ⑥
- MOD CODE ⑥

Table 1 - Order Number Data

Accessory Order Number By Connector Code & Shell Size

ORDER NUMBER	18 ⟨4⟩	21	32 ⟨2⟩	40 ⟨3⟩	41	54		64	61	76	A UNIFIED THREAD	B MAX DIA.	C MAX DIA.	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				
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	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	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	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	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	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	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	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	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	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	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	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	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	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 "N" 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

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SUPPORT DATA

STANDARD FINISHES & MATERIALS

TABLE IV

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	SAE AMS-QQ-P-416, TYPE II, CLASS 3, OVER ⚠7 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

1. 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
4. EMI/RFI ACCESSORIES ARE SUPPLIED WITH CONDUCTIVE FINISHES ONLY
5. ANODIZE NOT SUITABLE FOR EMI SHIELDING OR GROUNDING APPLICATIONS
6. 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)

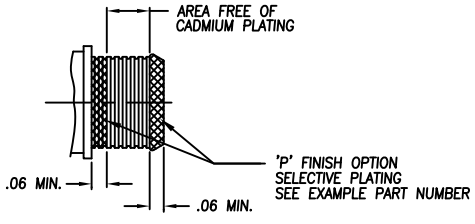

FIGURE 2

ELECTRO ADAPTER INC.
CHATSWORTH, CALIFORNIA, USA 91311
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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 = ±.2

   .XX = ±.12

   .XXX = ± .062

   X° = ±10°

ELECTRO ADAPTER INC.
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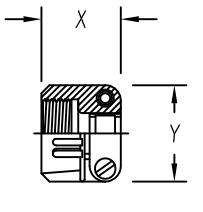
SUPPORT DATA

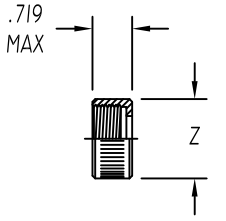
TABLE V
CABLE STRAIN RELIEF STYLES

Table 2 - Environmental / Non-Environmental Cable Entry Data

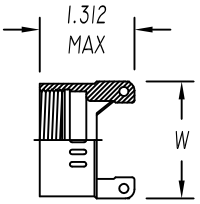
ENTRY ORDER NUMBER	ENVIRONMENTAL GLAND RANGE MAX	ENVIRONMENTAL GLAND RANGE MIN	NON ENVIRONMENTAL CABLE RANGE MAX	NON ENVIRONMENTAL CABLE RANGE MIN	V UNIFIED THREAD	R MAX DIM.	S MAX DIM.	T MAX DIM.	U MAX DIM.	W MAX DIM.	X MAX DIM.	Y MAX DIM.	Z MAX DIA.
⚠1 03	.250	.156	.250	.156	.500-28	N / A	.812	1.375	.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
⚠2 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



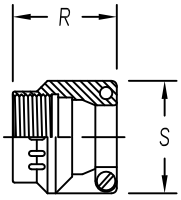
STYLE 1 ⚠1
AS85049/41A CLAMP
(MS 3057**A)



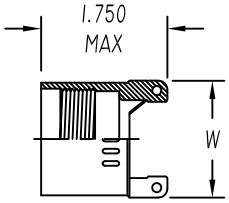
STYLE 2 ⚠1
NUT



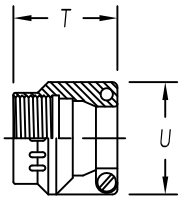
STYLE 3 ⚠2
NON-ENVIRONMETAL



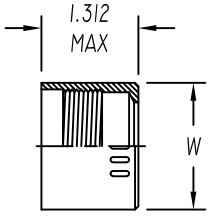
STYLE 3 ⚠1
NUT
ENVIRONMENTAL
(AS85049/1)
(MS 3057-**B)



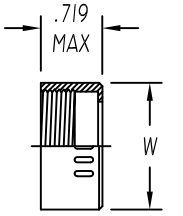
STYLE 3 ⚠2
ENVIRONMETAL



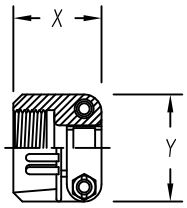
STYLE 4 ⚠1
STRAIN RELIEF
ENVIRONMENTAL
(AS85049/2)
(MS 3057-**C)



STYLE 4 ⚠2
ENVIRONMETAL



STYLE 4 ⚠2
NON-ENVIRONMETAL



STYLE 9 ⚠1
STRAIN-RELIEF CLAMP
WITH TELESCOPING SCREWS

NOTES: UNLESS OTHERWISE SPECIFIED

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

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

3. CONSULT FACTORY FOR SIZES AND INFORMATION NOT LISTED