

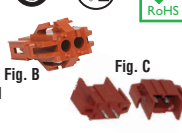
AMP MR (Mini. Rectangular) Connectors

- ▶ 0.165" Contact-to-Contact Spacing
- ▶ Plugs and Caps Fit the Same Mounting Hole
- ▶ Nylon, 94 V-0 Rated, Brick Red Housings
- ▶ Housings Positively Lock to Help Prevent Accidental Disengagement
- ▶ Plug and Cap Design Include Molded-In Polarizing Feature for Proper Mating
- ▶ Egg Crate Design of Plug-Half Fully Encloses Socket Contacts Reducing Shock Hazard

Fig. A

Fig. B

Fig. C



Pin Housings (Cap) — Fig. A

Stock No.	Mfr.'s Type	No. of Pos.	Style	EACH		
				1-49	50-99	100-249
70083731	1-640507-0	2	In-Line	.88	.82	.75
70083732	1-640508-0	3	In-Line	1.33	1.22	1.10
70083733	1-640509-0	4	Matrix	1.24	1.13	1.04
70083734	1-640510-0	6	Matrix	1.39	1.26	1.16
70083735	1-640511-0	9	Matrix	1.53	1.40	1.28
70083736	1-640512-0	12	Matrix	1.67	1.52	1.39
70083737	1-640513-0	15	Matrix	1.86	1.69	1.55
70083243	1-640514-0	20	Matrix	2.84	2.58	2.36
70083738	1-640515-0	24	Matrix	3.00	2.73	2.50
70083739	1-640516-0	36	Matrix	3.37	3.06	2.81

Socket Housings (Plug) — Fig. B

Stock No.	Mfr.'s Type	No. of Pos.	Style	EACH		
				1-49	50-99	100-249
70083740	1-640517-0	2	In-Line	.71	.64	.59
70083741	1-640518-0	3	In-Line	1.15	1.04	.95
70083742	1-640519-0	4	Matrix	1.31	1.19	1.09
70083743	1-640520-0	6	Matrix	1.16	1.06	.97
70083744	1-640521-0	9	Matrix	1.73	1.58	1.45
70083745	1-640522-0	12	Matrix	1.67	1.52	1.39
70083746	1-640523-0	15	Matrix	1.78	1.61	1.49
70083747	1-640524-0	20	Matrix	3.10	3.00	2.65
70083748	1-640525-0	24	Matrix	3.12	2.84	2.60
70083749	1-640526-0	36	Matrix	3.22	2.93	2.69

Header Assemblies (Pin) — Fig. C

- ▶ PC Board Vertical Pin Headers
- ▶ Contacts: Pre-Tin Over Phosphor Bronze

Stock No.	Mfr.'s Type	No. of Pos.	Style	EACH		
				1-49	50-99	100-249
70084894	640497-1	2	In-Line	.90	.82	.75
70084895	640498-1	3	In-Line	1.08	.96	.91
70084897	640499-1	4	Matrix	1.71	1.56	1.44
70084896	640500-1	6	Matrix	1.97	1.80	1.66
70084898	640501-1	9	Matrix	2.11	—	—
70084899	640502-1	12	Matrix	3.67	3.34	3.06

Strain Reliefs and Grommets

Strain Reliefs MR Connectors — Fig. A

These strain reliefs can be used with either pin or socket housings. One piece — clam shell design. Material: 94 V-0 nylon, brick red color. Adapting grommets (sold separately) are flexible PVC (55/79 durometer) and are black.



Fig. B



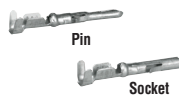
Stock No.	Mfr.'s Type	No. of Circuits	ID (In.)	EACH		
				1-299	300-499	500-899
70083752	350522-1	9	0.420	2.55	2.40	2.25
70083754	350374-1	12	0.420	2.20	2.00	1.84
70083755	350523-1	15	0.420	4.04	3.67	3.37
70083756	480634-1	20	0.560	2.90	—	—
70083757	350524-1	24	0.560	2.54	—	—
70083928	480594-1	36	0.560	6.13	5.62	5.27

Strain Relief Adapting Grommets — Fig. B

Stock No.	Mfr.'s Type	No. of Pos.	ID (In.)	1-49	50-99	100-249
70042410	2-380937-0	20, 24, and 36	0.312	1.35	1.23	1.12

MR Contacts

Material and Finish: Phosphor bronze, pre-tin plated or 0.000050" (0.00127 mm) nickel over entire contact and 0.000030" (0.00076 mm) gold in contact area. 0.008" (0.2 mm) stock thickness.



Stock No.	Mfr.'s Type	Description	Plating	AWG*	EACH		
					1-49	50-99	100-249
70083946	640579-1	Pin	Pre-Tin	26-24	.30	.28	.25
70083948	794001-1	Socket	Pre-Tin	26-24	.25	.24	.22
70083816	640545-1	Pin	Pre-Tin	26-18	.28	.26	.24
70083944	641300-1	Socket	Pre-Tin	26-18	.26	.23	.21
70083947	640579-2	Pin	Gold	26-24	1.03	.94	.85
70083949	794001-2	Socket	Gold	26-24	1.14	1.04	.95
70083943	640545-2	Pin	Gold	26-18	1.06	.94	.85
70083945	641300-2	Socket	Gold	26-18	.78	.73	.65

*26-24 wire gauge contacts have a 0.025"-0.050" insulation diameter range. 26-18 have a range of 0.050"-0.115".

Crimping and Insertion/Extraction Tools

Stock No.	Mfr.'s Type	Description	EACH
70089830	58514-1	PRO-CRIMPER™ II for 26-18 AWG	308.81
70089885	91534-1	CERTI-CRIMP™ II, SAHT MR, 26-24 AWG	1411.11
70089699	91526-1	CERTI-CRIMP™ for 26-18 AWG	756.79
70089669	2063388-1	Contact Extraction Tool	14.97
70089652	455830-1	Contact Insertion Tool	30.88



Note: See Section 27 for power assisted tools.

AMP VAL-U-LOK™ Connectors

- ▶ Wire-to-Board, Wire-to-Wire, and Wire-to-Panel Connection System
- ▶ 4.2 mm x 4.2 mm Centerline
- ▶ Male and Female Contacts Designed for 26-22 AWG and 22-18 AWG Wire
- ▶ Positive Latch Feature Helps Prevent Disconnection
- ▶ Interchangeable with Molex Mini-Fit Jr. Connectors



Plug Housings/Panel Mount

Stock No.	Mfr.'s Type	No. of Pos.	EACH		
			1-49	50-99	100-249
70083362	794953-2	2	.12	.11	.10
70083363	794953-4	4	.13	.12	.10
70083364	794953-6	6	.13	.12	.11
70083365	794953-8	8	.09	—	—

Plug Housings/Free Hanging

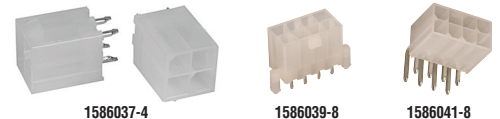
Stock No.	Mfr.'s Type	No. of Pos.	EACH		
			1-49	50-99	100-249
70083366	1586000-2	2	.12	.11	.10
70083367	1586000-4	4	.12	.11	.10
70083368	1586000-6	6	.16	.15	.13
70083369	1586000-8	8	.17	.15	.14

Receptacle Housings

Stock No.	Mfr.'s Type	No. of Pos.	EACH		
			1-49	50-99	100-249
70083371	794954-2	2	.12	.11	.10
70083372	794954-4	4	.13	.12	.10
70083373	794954-6	6	.14	.13	.12
70083374	794954-8	8	.16	.14	.13

Headers

- ▶ All Headers Have Brass, Tin-Plated Contacts



Vertical without Pegs

Stock No.	Mfr.'s Type	No. of Pos.	EACH		
			1-49	50-99	100-249
70083377	1586037-2	2	.36	.32	.29
70083378	1586037-4	4	.38	.34	.32
70083379	1586037-6	6	.42	.38	.35
70083380	1586037-8	8	.33	—	—

Vertical with Pegs

Stock No.	Mfr.'s Type	No. of Pos.	EACH		
			1-49	50-99	100-249
70083381	1586039-2	2	.31	.28	.25
70083382	1586039-4	4	.32	.28	.25
70083383	1586039-6	6	.24	—	—
70083384	1586039-8	8	.41	.37	.34

Right-Angle without Pegs

Stock No.	Mfr.'s Type	No. of Pos.	EACH		
			1-49	50-99	100-249
70083385	1586041-2	2	.44	.40	.37
70083386	1586041-4	4	.35	—	—
70083387	1586041-6	6	.54	.49	.45
70083388	1586041-8	8	.59	.54	.49

Contacts

- ▶ Brass, Tin Plated



Pins

Stock No.	Mfr.'s Type	AWG	EACH		
			1-49	50-99	100-249
70083925	1586316-1	26-22	.04	.03	.03
70083924	1586314-1	22-18	.05	.04	.04

Sockets

Stock No.	Mfr.'s Type	AWG	EACH		
			1-49	50-99	100-249
70083927	1586317-1	26-22	.05	.04	.04
70083926	1586315-1	22-18	.05	.05	.04

Tooling

Stock No.	Mfr.'s Type	AWG	Description	EACH
70089887	91387-1	26-22	PRO-CRIMPER™ III	467.88

Note: See Section 27 for power assisted tools.