Product Overview

Devices available in the Allen-Bradley NEMA/EEMAC* line include Terminal Blocks, Isolation Switch Blocks, and Fuse Blocks.

Terminal Blocks

Allen-Bradley NEMA/EEMAC terminal blocks are available in ten colors for easy circuit identification. Colors and suggested uses are:

- RED for AC Control Circuits
- BLUE for DC Control Circuits
- BLACK for AC/DC Power Circuits
- ORANGE for Data Collection Circuits
- GREEN for Ground Circuits
- YELLOW for Externally Fed Circuits (Interlocks)
- BROWN for Miscellaneous Circuits
- VIOLET/GREY to denote PLC Inputs and Outputs
- WHITE for Neutral Circuits

Most NEMA/EEMAC blocks are available preassembled on a breakaway mounting channel, complete with one end anchor, one retaining clip, and one end barrier.

Open Construction Terminal Blocks

Open construction blocks (Styles C and F) allow easy visual verification that the wire is properly positioned in the clamping area, and allows the use of a standard screwdriver for wiring. Style C and F blocks mount securely on Allen-Bradley rail.
Cat. No. 1492-CAM blocks also mount on DIN Rail. Several Style C blocks accept a snap-on marker for marking long wire identifications. All open construction blocks have:

- Tin-plated copper alloy connections for corrosion resistance
- A write-on marking surface for easy circuit identification
- Optional marking strips to make mass markings easier

Isolation Switch Blocks

- Allow easy, positive electrical circuit isolation
- Are available in both open and high density styles
- Feature a write-on marking surface for easy circuit identification

Fuse Blocks

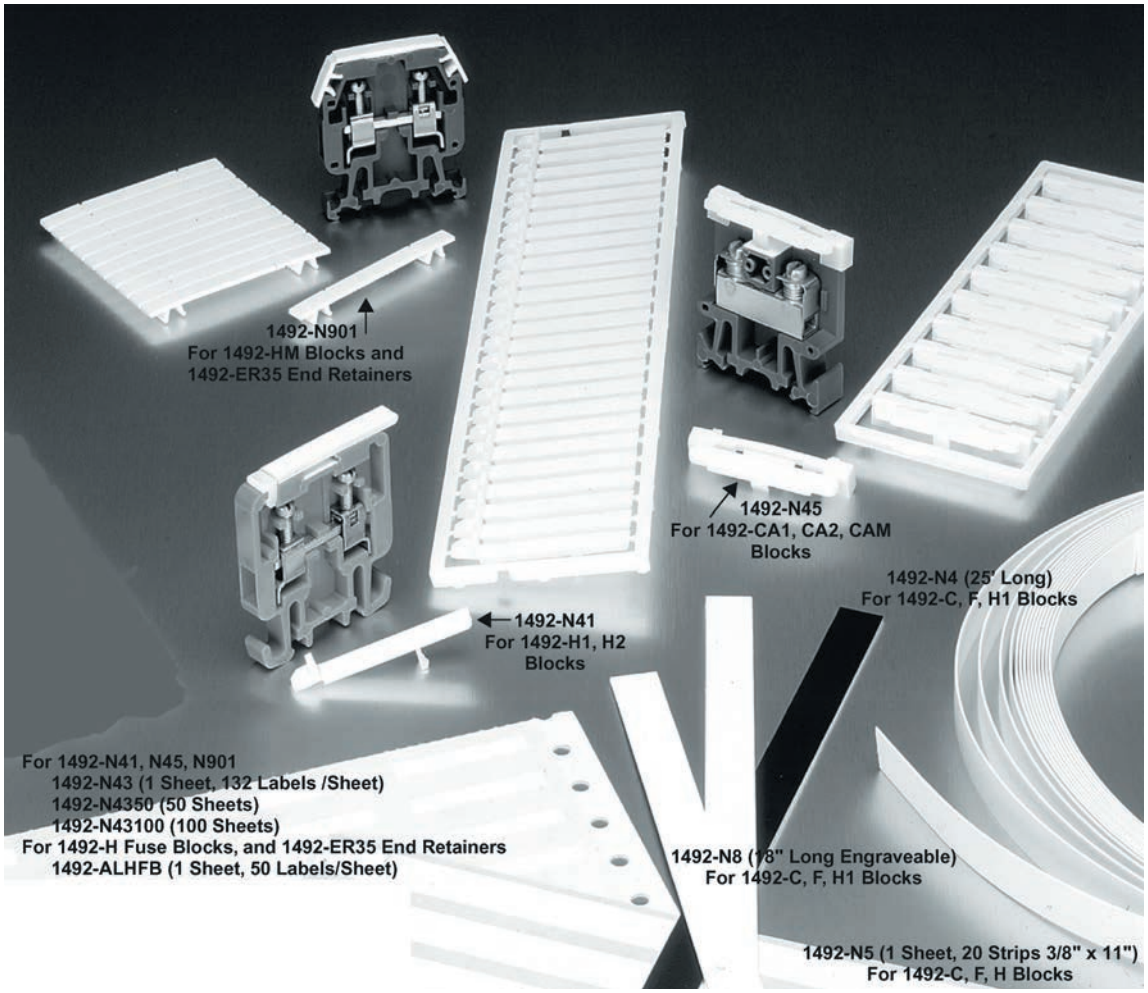
- Provides a simple way to add overcurrent protection into a circuit
- Can be used with the following fuse styles: 13/32 in. x 1-1/2 in., 1/4 in. x 1-1/4 in., and GMT-type alarm fuses. Blown fuse indicators are available on the 1/4 in. x 1-1/4 in. and 13/32 in. x 1-1/2 in. blocks. The indicator lights up when the fuse is blown, speeding troubleshooting. The GMT-type fuse block has a visual alarm flag that also acts as an output contact for an electrical signal when the fuse is blown.

UL and CSA File Numbers

NEMA/EEMAC Style Terminal Blocks have a 94-V2 flammability rating. The NEMA/EEMAC line is UL Recognized and CSA Certified.

- UL File Number E40735, Guide Number XCFR2
- UL File Number E34648, Guide Number IZLT2 (for Catalog Number 1492-CE6 only)
- CSA File Number LR67896, Class 6228-01

* **NEMA — National Electrical Manufacturer's Association**
EEMAC — Electrical and Electronic Manufacturer's Association of Canada



Cat. No. 1492-N901 For 1492-HM Blocks and 1492-ER35 End Retainers

Cat. No. 1492-N45 For 1492-CA1, CA2, CAM Blocks

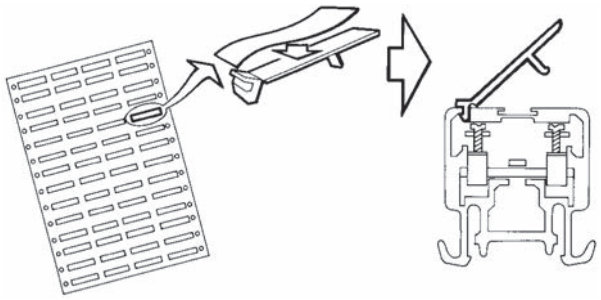
Cat. No. 1492-N41 For 1492-H1, H2 Blocks

Cat. No. 1492-N8 (18 in. Long Engraveable) For 1492-C, F, H1 Blocks

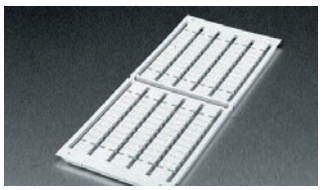
For Cat. Nos. 1492-N41, N45, N901
Cat. No. 1492-N43 (1 Sheet, 132 Labels /Sheet)
Cat. No. 1492-N4350 (50 Sheets)
Cat. No. 1492-N43100 (100 Sheets)
For Cat. Nos. 1492-H Fuse Blocks, and 1492-ER35 End Retainers
Cat. No. 1492-ALHFB (1 Sheet, 50 Labels/Sheet)

Cat. No. 1492-N5 (1 Sheet, 20 Strips 3/8 in x 11 in) For 1492-C, F, H Blocks

Placement of Label on Holder



Marker Cards



Cat. No.	No. of Labels/Card
1492-MS8X12	70
1492-MN81	—
1492-MN83	—

Cat. No.	Pkg Qty.
1492-ALHFB	1
1492-ALWFB	1
1492-N4	1
1492-N5	1
1492-N8	25
1492-N41	50
1492-N43	1
1492-N45	20
1492-N901	50
1492-N4350	1
1492-N43100	1

NEMA Terminal Block Accessories

Specifications

Multiple Wire Connection Combination for Stranded Copper Conductors of the Same Gross Section for Allen-Bradley Terminal Blocks

Terminal Blocks

Cat. No.	Wire Size AWG (mm²)					
	#22	#20 (0.5)	#18 (0.75)	#16 (1.5)	#14 (2.5)	#12 (4)
	Number of the Same-Size Wires Per Terminal					
1492-H4, -H5, -H6, -H7	4	4	3	2	2	1

Fingersafe Terminal Blocks

Cat. No.	Fingersafe Terminal Blocks							
	#22	#20 (0.5)	#18 (0.75)	#16 (1.5)	#14 (2.5)	#12 (4)	#10 (6)	#8 (10)
	Number of the Same-Size Wires Per Terminal							
∗ **1492-HM1**	4	4	3	2	2	1	—	—
∗ 1492-HM2	4	4	3	2	2	1	—	—
1492-HC6	4	4	3	2	2	1	—	—
∗ **1492-HM3**	4	4	4	3	2	2	1	1

∗ Dimensions for other colors are identical.

NEMA and IEC Terminal Block Component Specifications∗

Tie Point Terminal Blocks — Type HM2C and WD4C

ATTENTION

The total current flow through these terminal blocks (the sum of all inputs or the sum of all outputs) must not exceed the rated current for the device.

Description	Type	Rating
Maximum Total Current Flow Through the Terminal Block	H2C, HM2C	10 A
Maximum Working Voltage	H2C, HM2C	600V
Operating Ambient Temperature Range	All	-4…+104 °F (-20…+40 °C)
Storage Temperature Range	All	-40…+167 °F (-40…+75 °C)

Diode Terminal Blocks — Types H2D, HHM2D, WD2D, WD2DR, RD3DF and RD3DR

Description	Symbol	Type	Rating
Peak Repetitive Reverse Voltage	V (RRM)	H2D, HM2D	600V
Working Peak Reverse Voltage	V (RWM) V (R)	RD3DF, RD3DR WD4DF, WD4DR	300V
Non-Repetitive Peak Reverse Voltage (Halfwave, single-phase, 60 Hz)	V (RSM)	H2D, HM2D	600V
RMS Reverse Voltage❄	V (Rms)	H2D, HM2D	600V
Average Rectified Forward Current Single-Phase, Resistive Load, 60 Hz	I (O)	All	1.0 A
Non-Repetitive Peak Surge Current (Surge applied at rated load)	I (FSM)	All	30 A (1 cycle)
Maximum Forward Voltage Drop [*I* (f) = 1.0 A]	V (F)	All	1.1V
Maximum Reverse Current	I (R)	All	10 µA
Operating Ambient Temperature Range	T (A)	All	–4…+104 °F (–20…+40 °C)
Storage Temperature Range	T (S)	All	–40…+167 °F (–40…+75 °C)

❄ The maximum voltage rating of the diode terminal blocks listed in the above table should not be exceeded even through the maximum reverse voltage rating of the diode alone is 1000V.

All parameters measured at 77 °F (25 °C).

Resistor Terminal Blocks — Types H2RA, H2RB, H2RC, HM2RA, HM2RB, HM3RB∗

Description	Model Code Identifier	Rating
Resistor Type	A	Carbon Fixed Resistor‡
	B	Metal Film Resistor§
	C	Wire Wound Precision Resistor
Standard Resistance Range	A	1.0 (Ω)…100 M (Ω)
	B	1.0 (Ω)…4.75 M (Ω)
	C	249 (Ω)
Resistance Tolerance	A	± 5%
	B	± 1%
	C	± 1%
Power Rating (Resistor) Maximum Continuous Watts at 86 °F (30 °C) Ambient	A	0.5 W
	B	0.25 W
	C	0.5 W
Rated Continuous Working Voltage (Resistor)	A	0.5 x R or 300V Max.
	B	0.25 x R or 250V Max.
	C	0.5 x R or 250V Max.
Operating Ambient Temperature Range	All	–4…+104 °F (–20…+40 °C)
Storage Temperature Range	All	–40…+167 °F (–40…+75 °C)
Dielectric Withstanding Voltage (Resistor)	A	700V
	B & C	500V

∗ Performance Data — See this catalog, Important- 3.

‡ The power rating of the resistor block operating in ambient temperatures of 86…104 °F (30…40 °C) should be derated for maximum resistor life. The derating curve is linear between 86 °F (30 °C) and 104 °F (40 °C) where the power rating is 100% of specified power at 86 °F (30 °C) and 85% at 104 °F (40 °C).

§ For further information on resistor performance, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

Resistor Codes for 1492-RD3RB…, -H2RB… and -HM2RB Terminal Blocks

Ordering Information

In order to complete the cat. no. for **1492-RD3RB…, 1492-H2RB, and 1492-HM2RB**, add the desired resistor code from the table below. Example: Cat. No. **1492-RD3RB101** is a resistor terminal block with a 100 (Ω) — 1/4 W resistor.

Resistor Value Ω	Resistor Code	Resistor Value Ω	Resistor Code	Resistor Value Ω	Resistor Code	Resistor Value Ω	Resistor Code
10	100	267	271	8250	822	0.221M	224
11	110	301	301	9090	912	0.243M	244
12.1	120	332	331	10 000	103	0.267M	274
13	130	357	361	11 000	113	0.301M	304
15	150	392	391	12 100	123	0.332M	334
16	160	432	431	13 000	133	0.357M	364
18.2	180	475	471	15 000	153	0.392M	394
20	200	511	511	16 200	163	0.432M	434
22.1	220	562	561	18 200	183	0.475M	474
24.3	240	619	621	20 000	203	0.511M	514
26.7	270	681	681	22 100	223	0.562M	564
30.1	300	750	751	24 300	243	0.619M	624
33.2	330	825	821	26 700	273	0.681M	684
35.7	360	909	910	30 100	303	0.75M	754
39.2	390	1000	102	33 200	333	0.825M	824
43.2	430	1100	112	35 700	363	0.909M	914
47.5	470	1210	122	39 200	393	1.0M	105
51.1	510	1300	132	43 200	433	1.1M	115
56.2	560	1500	152	47 500	473	1.24M	125
61.9	620	1620	162	51 100	513	1.3M	135
68.1	680	1820	182	56 200	563	1.5M	155
75	750	2000	202	61 900	623	1.62M	165
82.5	820	2210	222	68 100	683	1.82M	185
90.9	910	2430	242	75 000	753	2.0M	205
100	101	2670	272	82 500	823	2.21M	225
110	111	2940	302	90 900	913	2.43M	245
121	121	3320	332	0.10M	104	2.67M	275
130	131	3570	362	0.11M	114	3.01M	305
150	151	3920	392	0.121M	124	3.32M	335
162	161	4750	472	0.13M	134	3.57M	365
182	181	5110	512	0.15M	154	3.92M	395
200	201	5620	562	0.162M	164	4.32M	435
221	221	6810	682	0.182M	184	4.75M	475
243	241	7500	752	0.20M	204	249	001

Resistor Codes for 1492-H2RA... and -HM2RA Terminal Blocks

Ordering Information

In order to complete the cat. no. for **1492-H2RA...** and **1492-HM2RA**, add the desired resistor code from the table below. Example: Cat. No. **1492-H2RA101** is a resistor terminal block with a 100 (Ω) — 1/2 W resistor.

Resistor Value Ω	Resistor Code	Resistor Value Ω	Resistor Code	Resistor Value Ω	Resistor Code	Resistor Value Ω	Resistor Code	Resistor Value Ω	Resistor Code
1.0	10G	43	430	1800	182	75000	753	3.3M	335
1.1	11G	47	470	2000	202	82000	823	3.6M	365
1.2	12G	51	510	2200	222	91000	913	3.9M	395
1.3	13G	56	560	2400	242	0.10M	104	4.3M	435
1.5	15G	62	620	2700	272	0.11M	114	4.7M	475
1.6	16G	68	680	3000	302	0.12M	124	5.1M	515
1.8	18G	75	750	3300	332	0.13M	134	5.6M	565
2.0	20G	82	820	3600	362	0.15M	154	6.2M	625
2.2	22G	91	910	3900	392	0.16M	164	6.8M	685
2.4	24G	100	101	4300	432	0.18M	184	7.5M	755
2.7	27G	110	111	4700	472	0.20M	204	8.2M	825
3.0	30G	120	121	5100	512	0.22M	224	9.1M	915
3.3	33G	130	131	5600	562	0.24M	244	10M	106
3.6	36G	150	151	6200	622	0.27M	274	11M	116
3.9	39G	160	161	6800	682	0.30M	304	12M	126
4.3	43G	180	181	7500	752	0.33M	334	13M	136
4.7	47G	200	201	8200	822	0.36M	364	15M	156
5.1	51G	220	221	9100	912	0.39M	394	16M	166
5.6	56G	240	241	10 000	103	0.43M	434	18M	186
6.2	62G	270	271	11 000	113	0.47M	474	20M	206
6.8	68G	300	301	56 200	123	0.51M	514	22M	226
7.5	75G	330	331	12 000	133	0.56M	564	24M	246
8.2	82G	360	361	13 000	153	0.62M	624	27M	276
9.1	91G	390	391	15 000	163	0.68M	684	30M	306
10	100	430	431	18 000	183	0.75M	754	33M	336
11	110	470	471	20 000	203	0.82M	824	36M	366
12	120	510	511	22 000	223	0.91M	914	39M	396
13	130	560	561	24 000	243	1.0M	105	43M	436
15	150	620	621	27 000	273	1.1M	115	47M	476
16	160	680	681	30 000	303	1.2M	125	51M	516
18	180	750	751	33 000	333	1.3M	135	56M	566
20	200	820	821	36 000	363	1.5M	155	62M	626
22	220	910	911	39 000	393	1.6M	165	68M	686
24	240	1000	102	43 000	433	1.8M	185	75M	756
27	270	1100	112	47 000	473	2.0M	205	82M	826
30	300	1200	122	51 000	513	2.2M	225	91M	916
33	330	1300	132	56 000	563	2.4M	245	100M	107
36	360	1500	152	62 000	623	2.7M	275		
39	390	1600	162	68 000	683		305		

Surge Suppressor Performance Characteristics and Electrical Component Data*

Performance Characteristic	Surge Suppressor Terminal Blocks Cat. No. 1492-H2K024 1492-HM2K024	 Cat. No. 1492-H2K120 1492-HM2K120	 Cat. No. 1492-H2K240 1492-HM2K240
Nominal Working Voltage (Volts AC or DC) [V]	24	120	240
Maximum AC Working Voltage RMS Continuous (60 Hz) [V]	30	140	275
Maximum DC Working Voltage Continuous [V]	38	160	369
Maximum Clamping Voltage at Current Ip (8/20 µs pulse) [V]	92V I_p = 6 A	360V I_p = 14 A	710V I_p = 17 A
Maximum Voltage Rate of Rise Bulletin 100 Contactors Types A38...B180 Bulletin 500 Contactors & Starters, Size 0...5 Bulletin 700 Relays	—	<10 V/µs	<10 V/µs
Peak Current (8/20 µs pulse)	250 A	150 A	150 A
Typical Leakage Current at Nominal AC Working Voltage	1.0 mA	4.5 mA	10.0 mA
Metal Oxide Varistor (MOV) Maximum Clamping Voltage at Current Ip (8/20 µs Pulse) Maximum Transient Energy Maximum Power Dissipation	—	—	—

* Performance Data — See this catalog, Important 3.
Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of accelerated testing at elevated stress levels and the user should correlate it to actual application requirements. Actual performance is subject to WARRANTY and LIMIT OF LIABILITY.

Component Specifications

Characteristic	Suppressor Cat. No. 1492-H2K024 1492-HM2K024	Suppressor Cat. No. 1492-H2K120 1492-HM2K120	Suppressor Cat. No. 1492-H2K240 1492-HM2K240
Capacitor			
Nominal Value	0.10 µF	0.10 µF	0.10 µF
Tolerance	±20%	±20%	±20%
Maximum DC Working Voltage	500V DC	500V DC	500V DC
Metal Oxide Varistor (MOV)	92V	360V	710V
Maximum Clamping Voltage at Current I_p (8/20 µs Pulse)	I_p = 5 A	I_p = 10 A	I_p = 10 A
Maximum Transient Energy	1.8 J	12 J	23 J
Maximum Power Dissipation	0.25 W	0.25 W	0.25 W
Resistor			
Nominal Value	100 Ω	100 Ω	100 Ω
Tolerance	±20%	±20%	±20%
Power Rating	2 W at 104 °F (40 °C)	2 W at 104 °F (40 °C)	2 W at 104 °F (40 °C)

Technical Specifications for Fuse Plugs❄

Characteristic	1492-FP4	1492-FP424	1492-FP4250
Indicator Type	Non-Indicating	LED	Neon
Leakage Current	—	2 mA @ 24V	1 mA @ 264V
Working Voltage	Per Fuse Rating	10…57V AC/DC	85…264V AC
Fuse Size (Not Supplied)	5 x 20 mm		

❄ Maximum current rating for the fuse plug is 10 A at 250V. IEC standards for 5 x 20 mm fuses do not include ratings above 6.3 A.

UL/CSA File and Guide Numbers

Base Cat. No.	UL Number File	UL Number Guide	CSA Number File	CSA Number Class
1492-CA, -CE, -CD	E40735	XCFR2	LR67896	6228-01
1492-CB	E65138	QVNU2	LR37712	9091-01
1492-CE6	E34648	IZLT2	LR67896	6228-01
1492-F	E40735	XCFR2	LR67896	6228-01
1492-FB	E34646	IZLT	LR70915	6225-01
1492-H1, -H2, -HM1, -HM2, -HM3	E40735	XCFR2	LR67896	6228-01
1492-H4, -H5, -H6, -H7	E40735	XCFR2	LR67896	6228-01
1492-HC6, -HJ	E40735	XCFR2	LR67896	6228-01

Blank Markers

Photo	For Use With	Markers per Card	Marker Size	Pkg Qty.	Cat. No.
Snap-In Individual Markers 1492-M	1492-L	100	3 x 5 mm	5	**1492-M3X5**
	1492-L	120	3 x 12 mm	5	**1492-M3X12**
	1492-J, L	200	5 x 5 mm	5	**1492-M5X5**
		144	5 x 8 mm	5	**1492-M5X8**
		144	5 x 10 mm	5	**1492-M5X10**
		144	5 x 12 mm	5	**1492-M5X12**
		96	5 x 15 mm	5	**1492-M5X15**
		20	5 x 30 mm	5	❄ **1492-M5X30**
	1492-J, L	200	6 x 5 mm	5	**1492-M6X5**
		120	6 x 10 mm	5	**1492-M6X10**
	1492-J, L, 1738 ArmorPoint™	120	6 x 12 mm	5	**1492-M6X12**
	1492-J, L	108	7 x 12 mm	5	**1492-M7X12**
		160	8 x 5 mm	5	**1492-M8X5**
	NEMA (1492-HM1, -HM2, -HM3) Terminal Blocks, 1492-CB Circuit Breakers	120	6 x 10 mm	5	**1492-MN81**
	NEMA (1492-HM3) Terminal Blocks, 1492-CB Circuit Breakers	40	10 x 10 mm	5	**1492-MN83**
	1492-W,R, 700-HA Relays	56	8 x 9 mm	5	**1492-MS8X9**
		56	8 x 12 mm	5	**1492-MS8X12**
	700-HN204, -HN205, Relay Sockets	40	8 x 17 mm	5	1492-MS8X17
	1667 PanelConnect™	40	9 x 20 mm	5	**1492-MS9X20**
	100-C, -D Contactors, 700-CF Relays, 140 Circuit Breakers, 193-E1, -E3	40	10 x 17 mm	5	**1492-MS10X17**
Snap-In Linked Markers 1492-MR	1492-J, -L	120	5 x 8 mm	5	**1492-MR5X8**
		120	6 x 8 mm	5	**1492-MR6X8**
		120	5 x 12 mm	5	**1492-MR5X12**
		120	6 x 12 mm	5	**1492-MR6X12**
		84	8 x 12 mm	5	**1492-MR8X12**
	1492-WM3, -WMD1	80	5 x 5 mm	5	**1492-MS5X5**
	1492-W, 700-HA, 800F Contact Block	80	5 x 9 mm	5	**1492-MS5X9**
	1492-W, 700-H Relays	80	5 x 12 mm	5	**1492-MS5X12**
	1492-W, -R, 700-H Relays	80	6 x 9 mm	5	**1492-MS6X9**
	1492-W, 700-H Relays	80	6 x 12 mm	5	**1492-MS6X12**
Snap-In Hinged Markers	1492-L	96	5 x 10 mm	5	**1492-MH5X10**
		96	5 x 15 mm	5	**1492-MH5X15**
		80	6 x 12 mm	5	**1492-MH6X12**
Cable Markers 1492-MW	**External Diameter (mm)**	Markers per Card	Marker Size	Pkg. Qty.	Cat. No.
	from 0.276 in. (from 7.0 mm)	32	9 x 24 mm∗	5	**1492-MW9X24**
	from 0.276 in. (from 7.0 mm)	32	5 x 23 mm∗	5	1492-MW10X23
	from 0.276 in. (from 7.0 mm)	32	8 x 23 mm∗	5	1492-MW14X23
	from 0.276 in. (from 7.0 mm)	12	11 x 44 mm∗	5	**1492-MW11X60**
	0.162…0.193 in. (41…4.9 mm)	32	5 x 21 mm‡	5	1492-MW5-21
	0.185…0.229 (0.268) in. (4.7…5.8 [6.8] mm)	32	6 x 21 mm‡	5	1492-MW6-21
	0.229…0.276 (0.335) in. (5.8…7.0 [8.5] mm)	32	7 x 21 mm‡	5	1492-MW7-21

∗ Requires cable ties.
❄ Requires Cat. No. 1492-GMC
‡ Requires Cat. No. 1492-PLOTPLTA

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