



Judd Wire Inc.

MAYSCRIPT

Judd Wire Inc. is an ISO 9001:2000 and SAE AS-9100 registered firm with two United States based factories that are part of the [Sumitomo Electric Industries](#) worldwide family of companies

PCA (80° C & 105° C XLPVC)

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PCA (80° C XLPVC)

PCA is a diverse line of tri-rated electronic wire. Its polychloroalkene insulation is an exclusive irradiation cross-linked PVC with a unique combination of high-performance properties.

High heat and burn-through resistance

PCA insulation will not melt or flow at soldering iron temperatures up to 660°F. It eliminates the problem of rework due to soldering iron damage.

Wide operating temperature range

PCA insulated wires are rated for continuous operation from -55° C to 105°C regardless of the temperature range established by UL, CSA and Mil Spec ratings.

Improved chemical resistance

PCA insulation has chemical and solvent resistance that is superior to the best grade PVC insulations.

Superior processability

End costs are reduced with PCA insulated wires, which conform easily to desired shapes for chassis wiring and harness construction. PCA insulation can be cut and stripped cleanly by automatic processing equipment. The characteristic PVC creep due to insulation stretch is eliminated.

VW-1

PCA insulated wire provides the same excellent flame-resistant properties as the best PVC insulations. It does not melt or shrink back at termination.

Ready availability

PCA insulated wire is available in nine UL styles and over 100 types and configurations. They are UL and CSA rated, and Mil specified at your option.

Reduced material costs

PCA tinned copper conductors do not require expensive silver plating as do many fluorocarbon constructions. PCA with tinned copper is comparable to fluorocarbon insulations with silver plating in every respect but one - price. There, PCA offers the significant advantage of lower cost with equivalent quality.

[UL1472](#)[UL1429, CSA AWM, Mil-W-16878F/1](#)[UL1534, CSA AWM, Mil-W-16878F/1](#)[UL1536, CSA AWM, Mil-W-16878F/1](#)[UL1787 Mil-W-16878F/1](#)

UL1472				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
32	Solid	.022	.559	H0107045
30	Solid	.024	.610	H0107001
30	7/38	.026	.660	H0107002
28	Solid	.027	.666	H0107003
28	7/36	.029	.737	H0107004
26	Solid	.030	.762	H0107005
26	7/34	.033	.838	H0107006
26	19/38	.035	.889	H0107020
24	Solid	.034	.864	H0107007
24	7/32	.038	.960	H0107008
24	19/36	.038	.965	H0107021
22	Solid	.039	.991	H0107009
22	7/30	.044	1.118	H0107010
22	19/34	.045	1.143	H0107022
20	Solid	.046	1.166	H0107011
20	7/28	.052	1.321	H0107012
20	19/32	.053	1.346	H0107023

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UL1429, CSA AWM, Mil-W-16878F/1				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
30	Solid	.032	.813	H0101001
30	7/38	.033	.838	H0101002
28	Solid	.034	.864	H0101004
28	7/36	.036	.914	H0101005
28	19/40	.036	.914	H0101006
26	Solid	.038	.965	H0101007
26	7/34	.040	1.016	H0101008
26	19/38	.040	1.016	H0101009
24	Solid	.042	1.067	H0101010
24	7/32	.045	1.143	H0101011
24	19/36	.045	1.143	H0101012
22	Solid	.047	1.194	H0101013
22	7/30	.051	1.295	H0101014
22	19/34	.052	1.321	H0101015
20	Solid	.054	1.372	H0101016
20	7/28	.059	1.499	H0101017
20	19/32	.060	1.524	H0101018
20	10/30	.058	1.473	H0101035
18	Solid	.061	1.549	H0102001
18	7/26	.070	1.778	H0102002
18	19/30	.070	1.778	H0102003
18	16/30	.069	1.753	H0102010

16	Solid	.073	1.854	H0102004
16	19/.0117	.078	1.981	H0102005
16	26/30	.082	2.083	H0102012

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UL1534, CSA AWM, Mil-W-16878F/1				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
14	Solid	.086	2.184	H0112003
14	19/.0147	.096	2.438	H0112001
14	41/30	.098	2.489	H0112002

UL1536, CSA AWM, Mil-W-16878F/1				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
12	19/.0185	.114	2.896	H0113003
12	65/30	.119	3.023	H0113002
10	37/.0167	.143	3.632	H0113008
10	105/30	.149	3.783	H0113007

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UL1787 Mil-W-16878F/1				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
30	7/38	.033	.838	H0108001
28	7/36	.036	.914	H0108002
26	Solid	.038	.965	H0108003
26	7/34	.040	1.016	H0108004
26	19/38	.040	1.016	H0108005
24	Solid	.042	1.067	H0108006
24	7/32	.045	1.143	H0108007
24	19/36	.045	1.143	H0108009
22	Solid	.047	1.194	H0108010
22	7/30	.051	1.295	H0108011
22	19/34	.052	1.321	H0108013
20	Solid	.054	1.372	H0108014
20	7/28	.059	1.499	H0108015
20	19/32	.060	1.524	H0108017
18	7/26	.070	1.778	H0108018
18	19/30	.070	1.778	H0108019
16	19/.0117	.078	1.981	H0108020

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PCA (105° C XLPVC)

[UL1430, CSA REW, Mil-W-16878F/2](#)

[UL1557, CSA REW, Mil-W-16878F/2](#)

[UL3317, CSA REW, Mil-W-16878F/2](#)

[UL1431, CSA REW, Mil-W-16878F/3](#)

UL1430, CSA REW, Mil-W-16878F/2				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
28	7/36	.049	1.245	H0103005
26	Solid	.050	1.270	H0103007
26	7/34	.051	1.295	H0103008
26	19/38	.053	1.346	H0103009
24	Solid	.054	1.372	H0103010
24	7/32	.056	1.422	H0103011
24	19/36	.057	1.448	H0103012
22	Solid	.059	1.499	H0103013
22	7/30	.062	1.575	H0103014
22	19/34	.063	1.600	H0103015
20	Solid	.066	1.676	H0103016
20	7/28	.070	1.778	H0103017
20	19/32	.071	1.803	H0103018
20	10/30	.071	1.803	H0103020
18	Solid	.074	1.880	H0104001
18	7/26	.082	2.083	H0104002
18	19/30	.082	2.083	H0104003
18	16/30	.082	2.083	H0104007
16	Solid	.085	2.159	H0104004
16	19/0117	.092	2.337	H0104005
16	26/30	.092	2.337	H0104006

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UL1557, CSA REW, Mil-W-16878F/2				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
14	Solid	.098	2.489	H0104010
14	19/.0147	.107	2.718	H0104008
14	41/30	.109	2.769	H0104009
12	Solid	.115	2.921	H0104012
12	19/.0185	.124	3.150	H0104011
12	65/30	.127	3.226	H0104015

UL3317, CSA REW, Mil-W-16878F/2				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
14	Solid	.098	2.489	H0104020
14	19/.0147	.107	2.718	H0104018
14	41/30	.109	2.769	H0104019
12	Solid	.115	2.921	H0104022
12	19/.0185	.124	3.150	H0104021
12	65/30	.127	3.226	H0104023
10	37/.0167	.149	3.785	H0104014
10	105/30	.156	3.962	H0104016

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UL1431, CSA REW, Mil-W-16878F/3				
AWG Sizes	Stranding	Nominal Inches	Diameter mm	Judd Part No.
24	7/32	.088	2.235	H0105011

24	19/36	.088	2.235	H0105012
22	Solid	.089	2.261	H0105013
22	7/30	.092	2.337	H0105014
22	19/34	.095	2.413	H0105015
20	Solid	.096	2.438	H0105016
20	7/28	.102	2.591	H0105017
20	19/32	.103	2.616	H0105018
20	10/30	.105	2.667	H0105019
18	Solid	.104	2.642	H0106001
18	7/26	.112	2.845	H0106002
18	19/30	.112	2.845	H0106003
18	16/30	.111	2.819	H0106026
16	Solid	.115	2.921	H0106004
16	19/.0117	.122	3.099	H0106005
16	26/30	.122	3.099	H0106029
14	Solid	.128	3.251	H0106007
14	19/.0147	.136	3.454	H0106008
14	41/30	.142	3.607	H0106032
12	Solid	.145	3.683	H0106010
12	19/.0185	.154	3.912	H0106011
12	65/30	.156	3.962	H0106035
10	37/.0167	.178	4.521	H0106014
10	105/30	.188	4.775	H0106015
8	133/.011	.261	6.629	H0106017
8	168/30	.267	6.782	H0106018
6	133/.0141	.342	8.687	H0106020
4	133/.0177	.392	9.957	H0106021
2	665/30	.456	11.582	H0106040

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