

MTW, TEW, UL 1015 & UL 1230 Hook-Up Wire

UL 105°C, 600V, VW-1 / 1032 1000V

CSA 105°C, 600V, FT1



PRODUCT DATA SHEET

UL 1015 hook-up wire is a PVC hook-up wire used for internal wiring for appliance and electronic equipment, panels, meters, point to point wiring, and many other applications. This PVC hook-up wire has multiple ratings, including MTW, TEW, UL 1015, and UL 1230. UL 1015 is an Appliance Wiring Material (AWM) style. Machine Machine Tool Wire (MTW) is a completely different UL Standard that covers both wires and cables designed for use on industrial machines. This allows the hook-up wire to be used in applications that required either type of UL approval.



CONSTRUCTION

- Conductor** Stranded bare or tinned copper
- Insulation Material** Polyvinyl Chloride
- Color** A variety of insulation colors available
- Operating Temperature** 105°C
- Min Temperature Rating** -40°C
- Operating Voltage** 600V / 1000V

STANDARDS

- UL 1426** Boat Cable
- UL 1063** Machine - Tool Wire
- UL 758** Appliance Wiring Material - Component
- CSA C22.2 No 127** Equipment and Lead Wires

IEWC Family	Conductor Type	AWG	Stranding	Nominal Insulation Thickness		Nominal O.D		UL Type	CSA Type
				Inch	mm	Inch	mm		
1028/08B19	Bare Copper	8	19/0295	0.0465	1.18	0.240	6.10	MTW, BC-5W2, 1028, 1231, 1015, 1336, 1344, 1032	TEW, AWM I A/B
1028/08T19	Tinned Copper	8	19/0295	0.0465	1.18	0.240	6.10	MTW, BC-5W2, 1028, 1231, 1015, 1336, 1344, 1032	TEW, AWM I A/B
1028/08B133	Bare Copper	8	133/29	0.0465	1.18	0.260	6.60	MTW, BC-5W2, 1028, 1231, 1015, 1336, 1344, 1032	TEW, AWM I A/B
1028/08T133	Tinned Copper	8	133/29	0.0465	1.18	0.260	6.60	MTW, BC-5W2, 1028, 1231, 1015, 1336, 1344, 1032	TEW, AWM I A/B
1015/10B01	Bare Copper	10	Solid	0.031	0.79	0.164	4.17	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/10T01	Tinned Copper	10	Solid	0.031	0.79	0.164	4.17	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/10B105	Bare Copper	10	105/30	0.030	0.76	0.173	4.39	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/10T105	Tinned Copper	10	105/30	0.030	0.76	0.173	4.39	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/10B19	Bare Copper	10	19/0234	0.031	0.78	0.178	4.52	MTW, BC-5W2, 1231, 1015, 1336, 1344, 1032	TEW, AWM I A/B
1015/10T19	Tinned Copper	10	19/0234	0.031	0.78	0.178	4.52	MTW, BC-5W2, 1231, 1015, 1336, 1344, 1032	TEW, AWM I A/B
1015/12B01	Bare Copper	12	Solid	0.031	0.79	0.144	3.66	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/12T01	Tinned Copper	12	Solid	0.031	0.79	0.144	3.66	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/12B65	Bare Copper	12	65/30	0.030	0.76	0.148	3.76	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/12T65	Tinned Copper	12	65/30	0.030	0.76	0.148	3.76	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/12B19	Bare Copper	12	19/0185	0.031	0.78	0.153	3.89	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/12T19	Tinned Copper	12	19/0185	0.031	0.78	0.153	3.89	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/14B01	Bare Copper	14	Solid	0.031	0.79	0.127	3.23	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/14T01	Tinned Copper	14	Solid	0.031	0.79	0.127	3.23	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/14B41	Bare Copper	14	41/30	0.030	0.76	0.130	3.30	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/14T41	Tinned Copper	14	41/30	0.030	0.76	0.130	3.30	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/14B19	Bare Copper	14	19/0147	0.031	0.78	0.133	3.38	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/14T19	Tinned Copper	14	19/0147	0.031	0.78	0.133	3.38	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/16B01	Bare Copper	16	Solid	0.031	0.79	0.113	2.87	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/16T01	Tinned Copper	16	Solid	0.031	0.79	0.113	2.87	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B

Design Number	10852
Revision History	
D0	2023/09/18 Initial Release
D1	2024/04/23 Add some new parts
D2	2024/06/12 Add 22AWG, 24AWG, 26AWG sizes
D3	2024/10/15 Add 2207AWG Bare copper size
Created	L. Jian
Approved	T. Plochocki

All trademarks are property of their respective owners. All specifications are subject to change.

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 Frankfurt | Rudolf-Braas-Strasse 2, D-61381 Friedrichsdorf, Germany
 Luton | Unit 11, Humphrys Road, Woodside Industrial Estate, Dunstable, LU5 4TP, UK
 Suzhou | B2-2 Weiting Industrial - Workshop A, No. 9 Weixin Road, Suzhou Industrial Park, China



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IEWC Family	Conductor Type	AWG	Stranding	Nominal Insulation Thickness		Nominal O.D		UL Type	CSA Type
				Inch	mm	Inch	mm		
1015/16B07	Bare Copper	16	7/0192	0.031	0.79	0.121	3.07	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/16B26	Bare Copper	16	26/30	0.030	0.76	0.114	2.90	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/16P26	Bare Copper	16	26/30	0.031	0.79	0.121	3.07	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/16T26	Tinned Copper	16	26/30	0.030	0.76	0.114	2.90	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/16B19	Bare Copper	16	19/0117	0.031	0.78	0.121	3.07	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/16T19	Tinned Copper	16	19/0117	0.031	0.78	0.121	3.07	MTW, BC-5W2, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/18P07	Prebond Copper	18	7/0152	0.031	0.79	0.108	2.74	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/18P16	Prebond Copper	18	16/30	0.031	0.79	0.108	2.74	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/18B16	Bare Copper	18	16/30	0.030	0.76	0.104	2.64	MTW, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/18T16	Tinned Copper	18	16/30	0.030	0.76	0.104	2.64	MTW, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/18Q16	Overcoat Copper	18	16/30	0.031	0.78	0.108	2.74	MTW, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/20B01	Bare Copper	20	Solid	0.031	0.78	0.094	2.39	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/20T01	Tinned Copper	20	Solid	0.031	0.78	0.094	2.39	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/20B10	Bare Copper	20	10/30	0.030	0.76	0.095	2.41	MTW, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/20T10	Tinned Copper	20	10/30	0.030	0.76	0.095	2.41	MTW, 1011, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/22B01	Bare Copper	22	Solid	0.031	0.79	0.088	2.24	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/22B07	Bare Copper	22	7/0096	0.031	0.79	0.092	2.34	MTW, 1011, 1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/22T01	Tinned Copper	22	Solid	0.031	0.79	0.088	2.24	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/22T07	Tinned Copper	22	7/0096	0.031	0.79	0.092	2.34	MTW, 1011, 1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/24B01	Bare Copper	24	Solid	0.031	0.79	0.083	2.10	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/24T01	Tinned Copper	24	Solid	0.031	0.79	0.083	2.10	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/24T07	Tinned Copper	24	7/32	0.031	0.79	0.086	2.18	1013, 1015, 1032, 1230, 1335	TEW, AWM I A/B
1015/26B01	Bare Copper	26	Solid	0.031	0.79	0.078	1.98	1015, 1230	TEW
1015/26T01	Tinned Copper	26	Solid	0.031	0.79	0.078	1.98	1015, 1230	TEW
1015/26T07	Tinned Copper	26	7/34	0.031	0.79	0.081	2.06	1015, 1230	TEW

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