Flexible Hook-Up Wire/MTW

105°C Dry. 75°C Moisture Resistant. 600/1000 Volts. Flexible Stranded Copper Conductor. PVC Insulation.

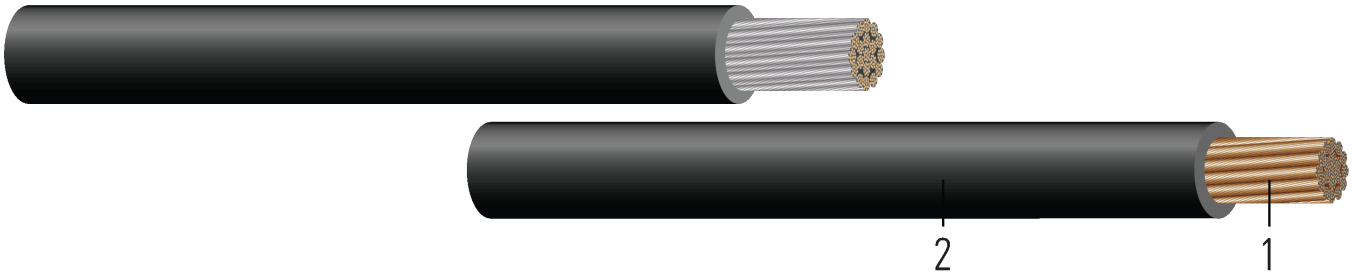

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Flexible stranded bare or tinned copper per ASTM B3 or B33
2. **Insulation:** Polyvinyl Chloride (PVC). All colors available; Stripes available upon request

APPLICATIONS AND FEATURES:

Designed for internal wiring of electrical equipment, control panels, appliances, and ground for use on industrial plan floor. For use as permitted by National Electrical Code® Article 310, NFPA 70, and in boat wiring in accordance with 33 CFR 183.425-435.

- AWM Style 1232: 105°C Dry, 60°C Wet, 600V
- AWM Style 1283: 105°C Dry, 600V
- AWM Style 1284: 105°C Dry, 600V
- AWM Style 1338: 90°C Dry, 60°C Wet/Oil, 600V
- AWM Style 1346: 105°C Dry, 75°C Wet, 600V
- AWM Style 10269: 105°C Dry, 1000V
- THHW: 90°C Dry, 75°C Wet, 600V
- Machine Tool Wiring (MTW): 90°C Dry, 60°C Wet/Oil, 600V
- BC-5W2: 105°C Dry, 75°C Wet, 600V
- TEW: 105°C Dry, 600V
- AWM I A/B: 105°C Dry, 600V

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B173 Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members
- SAE J1127 Surface Vehicle Standard Low Voltage Battery Cable
- UL 83 Thermoplastic Insulated Wires and Cables
- UL 758 Standard for Appliance Wiring Material
- UL 1063 Machine Tool Wiring (MTW)
- UL 1426 Electric Cables for Boats (BC-5W2)
- CSA C22.2 No. 127 Equipment and Lead Wires
- CSA C22.2 No. 210 Appliance Wiring Material Products

We've got it MADE IN AMERICA

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

UPDATED: Dec. 31, 2024, 11:08 p.m.UTC REVISION: 1.000.001

SAMPLE PRINT LEGEND:

6-3 AWG

XX AWG (XX{mm2}) E69567 {UL} BC-5W2 OR MTW OR THHW OR AWM 1232/1283/1346 600V OR 10269 1000V OIL RES I SUN RES VW-1 -- 156205 {CSA} TEW 105C 600V FT1 OR AWM I A/B 105C 600V FT1 -- SAE J1127 TYPE SGT

1/0 - 4/0 AWG

XX AWG (XX{mm2}) E69567 {UL} BC-5W2 OR MTW OR THHW FOR CT USE OR AWM 1232/1284/1338 600V OR 10269 1000V OIL RES I SUN RES VW-1 --- 156205 {CSA} TEW 105{D}C 600V FT-1 OR AWM I A/B 105{D}C 600V FT-1 -- SAE J1127 TYPE SGT

MCM Sizes

E51583 XXX MCM 600 VOLT {UL} TYPE MTW VW-1 OR THHW FOR CT USE OR AWM STYLES 1284 & 1339 600V & 10269 1000V SUN RES -- {CSA} 156205 AWM I A/B 600V 105{D}C FT1

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Strands	Cond. Metal	Diameter Over Cond.	Insul. Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C
	AWG	strands		inch	mil	inch	lb /1000ft	lb /1000ft	Ω /1000ft	Ω /1000ft
MTW/AWM/TEW/SGT										
F06041	6	266	TCu	0.198	60	0.322	82	116	0.450	0.541
F06036	6	266	Cu	0.198	60	0.335	82	120	0.450	0.541
F04034	4	420	Cu	0.235	60	0.367	131	171	0.282	0.340
F04040	4	420	TCu	0.235	60	0.372	128	173	0.282	0.340
F02034	2	665	TCu	0.302	65	0.437	210	259	0.179	0.216
F02030	2	665	Cu	0.302	60	0.440	210	260	0.179	0.216
F03008	3	525	Cu	0.303	60	0.400	169	213	0.226	0.272
TBA	3	525	TCu	0.303	60	0.400	169	213	0.226	0.272
F01021	1	833	Cu	0.347	80	0.516	260	334	0.143	0.172
F01025	1	833	TCu	0.347	80	0.521	260	336	0.143	0.172
F1T020	1/0	1064	TCu	0.354	90	0.561	335	420	0.113	0.136
F1T023	1/0	1064	Cu	0.354	80	0.561	335	419	0.113	0.136
F2T020	2/0	1330	TCu	0.400	80	0.585	420	502	0.090	0.108
F2T016	2/0	1330	Cu	0.400	80	0.616	420	515	0.090	0.108
F3T013	3/0	1672	Cu	0.533	80	0.666	518	617	0.072	0.087
TBA	3/0	1672	Tcu	0.533	80	0.666	518	617	0.072	0.087
F4T021	4/0	2109	Cu	0.550	100	0.726	668	789	0.057	0.069
F4T023	4/0	2109	TCu	0.550	80	0.726	651	764	0.057	0.069
MTW/AWM/TEW										
515880	350	3458	Cu	0.809	95	0.928	1090	1278	0.035	0.044
515820	500	5054	Cu	0.987	95	1.100	1544	1785	0.024	0.033

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Ampacity

Copyright © 2026 Southwire Company, LLC. All Rights Reserved