

Armorlite® Type MC THHN/THWN Copper Conductor Feeder Cable

Copper THHN/THWN-2 Insulated Singles. Bare Copper Grounding Conductor. UL Listed 600 Volts. Rated VW-1. Lightweight Aluminum Interlocked Armor.

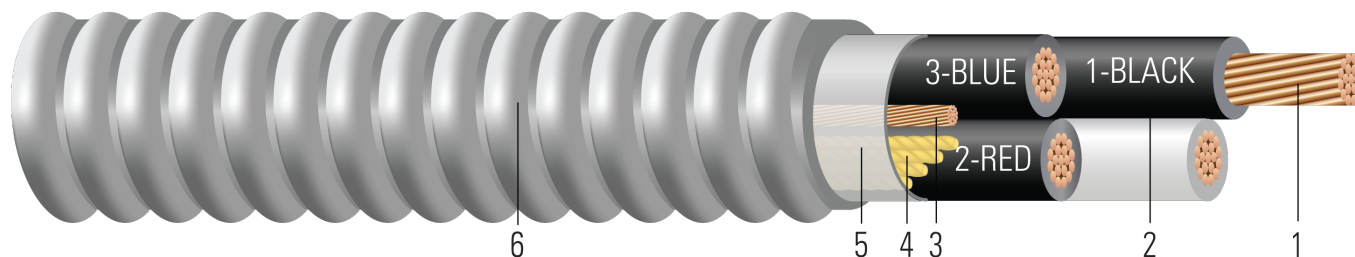


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed copper per ASTM B3 and ASTM B8
2. **Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
3. **Ground:** Bare stranded copper ground
4. **Filler:** Fillers as needed
5. **Binder:** Mylar tape
6. **Armor:** Aluminum Interlocked Armor

APPLICATIONS AND FEATURES:

Southwire Armorlite® Type MC Feeder Cable is suitable for use as follows:

- Feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Environmental air-handling spaces per NEC 300.22 (C).
- Places of Assembly per NEC 518.4 and theaters per NEC 520.5.
- Installation in cable tray and approved raceways.
- Under raised floors for information technology equipment conductors and cables per NEC 645.5(D) & 645.5(E)
- Class I Div. 2, Class II Div 2, & Class III Div. 1 Hazardous Locations.
- Binder tape with print legend wrapped around assembly.
- Type THHN/THWN rated 90°C Dry.

Southwire Armorlite® Type MC Cable - meets or exceeds the following requirements:

- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) (www.ul.com)
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables
- UL 1569 Metal-Clad Cables



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



Southwire

**CABLETECH
SUPPORT™**

Services

- UL 1479 Standard for Safety Fire Tests of Penetration Firestops
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- RoHS-2 (European Directive 2011/65/EU)
- Buy American: Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j); specify "Made in the USA Only!" when ordering to ensure your project receives American made products.
- REACH - European Community Regulation

SAMPLE PRINT LEGEND:

E96627 {UL} TYPE MC AWG XX THHN OR THWN CDRS FOR USE IN CABLE TRAYS 600 VOLTS

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size x Num	Diameter Over Armor	Overall Weight
	AWG/ Kcmil		inch		mils	No. x AWG	inch	lbs/1000ft
890347	1	3	0.322	19	60	1x6 GG	1.275	1147
890348	1/0	3	0.351	19	60	1x6	1.241	1349
890349	2/0	3	0.405	19	60	1x6	1.339	1637
890394	3/0	3	0.443	19	60	1x4	1.447	2039
890351	4/0	3	0.512	19	60	1x4	1.639	2536
890352	250	3	0.558	37	70	1x4	1.817	2957
555146	350	3	0.661	37	70	1x1/0	2.039	4205
890353	350	3	0.661	37	70	1x3	2.039	4039
564192	350	3	0.661	37	70	1x3/0	2.242	4433
890354	500	3	0.789	37	70	1x2	2.26	5518
561375	500	3	0.789	37	70	1x250	2.322	6178
555147	750	3	0.968	61	80	1x4/0	2.751	8575
890355	1	4	0.322	19	60	1x6 GG	1.351	1490
890356	1/0	4	0.351	19	60	1x6	1.371	1760
890357	2/0	4	0.405	19	60	1x6	1.573	2218
561032	3/0	4	0.443	19	60	1x3	1.694	2783
890395	3/0	4	0.443	19	60	1x4	1.694	2749
552552	4/0	4	0.512	19	60	1x3	1.795	3356
890359	4/0	4	0.512	19	60	1x4	1.795	3322
581852	250	4	0.558	37	70	1x2 GG	1.954	3994
890360	250	4	0.558	37	70	1x4	1.954	3885
890361	350	4	0.661	37	70	1x3	2.251	5323
568710	350	4	0.661	37	70	1x3/0	2.387	5705
890362	500	4	0.789	37	70	1x2	2.499	7289
564202	500	4	0.789	37	70	1x1/0	2.495	7408
564196	500	4	0.789	37	70	1x250	2.633	7806
567671	600	4	0.865	61	80	1x3/0	2.832	9101
552088	600	4	0.865	61	80	1x2	2.793	8682
550453	750	4	0.968	61	80	1x1/0	3.377	10843



All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

Note: Conductor number = number of phase conductors. Does not include ground

Note: GG = Green insulated ground

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Allowable Ampacity Raceway 60°C†	Allowable Ampacity Raceway 75°C†	Allowable Ampacity Raceway 90°C†
	AWG/Kcmil	Inches	Lbs	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
890347◊	1	8.9	2008	0.128	0.154	110	130	145
890348◊	1/0	8.6	2534	0.102	0.122	125	150	170
890349◊	2/0	9.3	3194	0.081	0.097	145	175	195
890394◊	3/0	10.1	4027	0.064	0.078	165	200	225
890351◊	4/0	11.4	5078	0.051	0.062	195	230	260
890352◊	250	12.7	6000	0.043	0.053	215	255	290
555146◊	350	14.2	8400	0.031	0.039	260	310	350
890353◊	350	14.2	8400	0.031	0.039	260	310	350
564192◊	350	15.6	8400	0.031	0.039	260	310	350
890354◊	500	15.8	12000	0.022	0.029	320	380	430
561375◊	500	16.2	12000	0.022	0.029	320	380	430
555147◊	750	19.2	18000	0.014	0.022	400	475	535
890355◊	1	9.4	2678	0.128	0.154	88	104	116
890356◊	1/0	9.5	3379	0.102	0.122	100	120	136
890357◊	2/0	11.0	4259	0.081	0.097	116	140	156
561032◊	3/0	11.8	5369	0.064	0.078	132	160	180
890395◊	3/0	11.8	5369	0.064	0.078	132	160	180
552552◊	4/0	12.5	6771	0.051	0.062	156	184	208
890359◊	4/0	12.5	6771	0.051	0.062	156	184	208
581852◊	250	13.6	8000	0.043	0.053	172	204	232
890360◊	250	13.6	8000	0.043	0.053	172	204	232
890361◊	350	15.7	11200	0.031	0.039	208	248	280
568710◊	350	16.7	11200	0.031	0.039	208	248	280
890362◊	500	17.4	16000	0.022	0.029	256	304	344
564202◊	500	17.4	16000	0.022	0.029	256	304	344
564196◊	500	18.4	16000	0.022	0.029	256	304	344
567671◊	600	19.8	19200	0.018	0.025	280	336	380
552088◊	600	19.5	19200	0.018	0.025	280	336	380
550453◊	750	23.6	24000	0.014	0.022	320	380	428

† Ampacities have been adjusted for more than Three Current-Carrying Conductors

† Ampacities based upon 2023 NEC Table 310.16. Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

