Armorlite® Type MC THHN/THWN Copper Conductor Feeder Cable 277/480V Colors

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

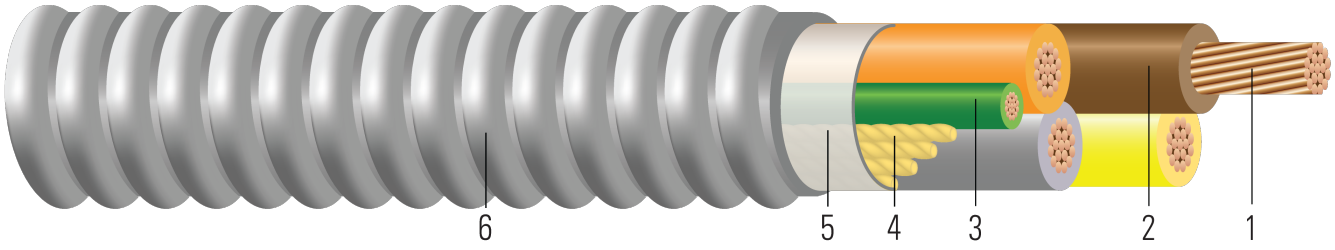


Image not to scale. See Table 1 for dimensions.

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:** Green Insulated or 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 90ºC Dry.
- Anti-short bushings are not required for use with MC cable per NEC and UL

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 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors

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- UL 83 Thermoplastic Insulated Wires and Cables
- UL 1569 Metal-Clad Cables
- 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.

SAMPLE PRINT LEGEND:

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

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	lbs/1000ft	lbs/1000ft
562658	1	3	BN,OE,YW	0.322	19	50	1x6	1.257	864	1173
562656	1/0	3	BN,OE,YW	0.362	19	50	1x6	1.32	1069	1401
TBA	2/0	3	BN,OE,YW,GN	0.405	19	60	1x4	1.347	1245	1790
646706	3/0	4	BN,OE,YW,GY,GN	0.456	19	50	1x4	1.723	2223	2813
585747	3/0	3	BN,OE,YW,GN	0.456	19	50	1x3	1.573	1734	2408
578691	4/0	3	BN,OE,YW,GN	0.512	19	50	1x4	1.64	2110	2591
578528	4/0	3	BN,OE,YW,GN	0.512	19	50	1x2	1.67	2187	2680
580856	4/0	4	BN,OE,YW,GY,GN	0.512	19	50	1x4	1.816	2770	3378
649419	4/0	4	BN,OE,YW,GY,GN	0.512	19	50	1x2	1.846	2846	3467
678419	4/0	4	BN,OE,YW,GY,GN	0.512	19	50	1x1/0	1.893	2969	3614
580737	350	3	BN,OE,YW,GN	0.661	37	60	1x1	2.016	3536	4206
677973	350	3	BN,OE,YW,GN	0.661	37	60	1x1/0	2.034	3604	4282
560114	350	3	BN,OE,YW,GN	0.661	37	60	1x3/0	2.081	3798	4497
560107	400	3	BN,OE,YW	0.706	37	60	1x250	2.219	4522	5316
576204	500	3	BN,OE,YW	0.789	37	60	1x4/0	2.342	5338	6144
669316	500	3	BN,OE,YW	0.789	37	60	1x2/0	2.297	5093	5900
579232	600	3	BN,OE,YW	0.866	61	70	1x350	2.608	6705	7678
582062	600	3	BN,OE,YW,GN	0.866	61	70	1x2	2.461	5820	6700
677974	600	3	BN,OE,YW,GN	0.866	61	70	1x1/0	2.461	5942	6839
579943	600	3	BN,OE,YW,GN	0.866	61	70	1x4/0	2.527	6273	7195
646845	600	4	BN,OE,YW,GY,GN	0.866	61	70	1x300	2.871	8420	9626
582068	1	4	BN,OE,YW,GY	0.322	19	50	1x6	1.384	1125	1497
562469	1/0	4	BN,OE,YW,GY	0.362	19	50	1x4	1.44	1447	1833
668615	4/0	4	BN,OE,YW,GY	0.512	19	50	1x3	1.83	2804	3425
653131	250	4	PE,TN,PK,GY	0.558	37	60	1x4	1.962	3249	3967
456838	350	4	BN,OE,YW,GY	0.661	37	60	1x2/0	2.28	4781	5607
553839	350	4	BN,OE,YW,GY	0.661	37	60	1x1	2.182	4627	5389
596449	400	4	BN,OE,YW,GY	0.706	37	60	1x250	2.455	5769	6696
579949	400	4	BN,OE,YW,GY	0.706	37	60	1x2/0	2.377	5405	6299
139624	600	4	PE,TN,PK,GY	0.866	61	70	1x2/0	2.768	7899	9060
138231	600	4	BN,OE,YW,GY	0.866	61	70	1x2	2.716	7691	8764

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
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.

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Table 2 – Electrical and Engineering Data

Cond. Size	Conductor Number	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil		Inches	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
1	3	8.8	2008	0.128	0.159	0.046	130	145
1/0	3	9.2	2534	0.102	0.127	0.044	150	170
2/0	3	10.1	3194	0.082	0.102	0.043	175	195
3/0	4	12.1	5369	0.064	0.079	0.042	160	180
3/0	3	11.9	4027	0.064	0.079	0.042	200	225
4/0	3	11.5	5078	0.051	0.063	0.041	230	260
4/0	3	11.7	5078	0.051	0.063	0.041	230	260
4/0	4	12.7	6771	0.051	0.063	0.041	184	208
4/0	4	12.9	6771	0.051	0.063	0.041	184	208
4/0	4	13.3	6771	0.051	0.063	0.041	184	208
350	3	14.1	8400	0.031	0.039	0.04	310	350
350	3	14.2	8400	0.031	0.039	0.04	310	350
350	3	14.6	8400	0.031	0.039	0.04	310	350
400	3	15.5	9600	0.027	0.035	0.04	335	380
500	3	16.4	12000	0.021	0.027	0.039	380	430
500	3	16.1	12000	0.021	0.027	0.039	380	430
600	3	18.3	14400	0.018	0.024	0.039	420	475
600	3	17.2	14400	0.018	0.024	0.039	420	475
600	3	17.2	14400	0.018	0.024	0.039	420	475
600	3	17.7	14400	0.018	0.024	0.039	420	475
600	4	20.1	19200	0.018	0.024	0.039	336	380
1	4	9.7	2678	0.128	0.159	0.046	104	116
1/0	4	10.1	3379	0.102	0.127	0.044	120	136
4/0	4	12.8	6771	0.051	0.063	0.041	184	208
250	4	13.7	8000	0.043	0.053	0.041	204	232
350	4	16	11200	0.031	0.039	0.04	248	280
350	4	15.3	11200	0.031	0.039	0.04	248	280
400	4	17.2	12800	0.027	0.035	0.04	268	304
400	4	16.6	12800	0.027	0.035	0.04	268	304
600	4	19.4	19200	0.018	0.024	0.039	336	380
600	4	19	19200	0.018	0.024	0.039	336	380

* Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.
* Ampacities have been adjusted for more than Three Current-Carrying Conductors.

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