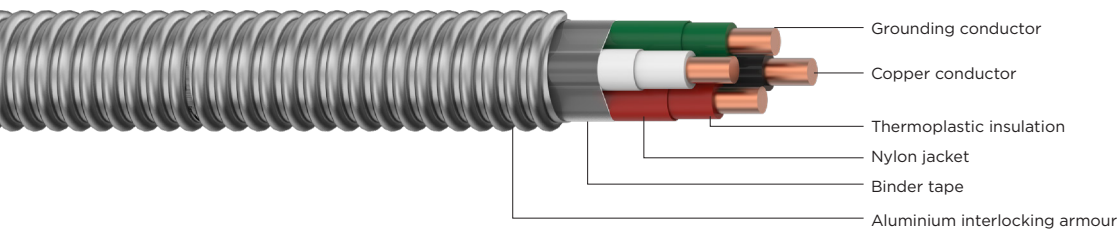


POLYCAB TYPE MC COPPER CONDUCTOR

INDUSTRIAL CABLE, UL 1569, 600 V

SPECIAL FEATURES

- Heat resistant
- Sunlight resistant
- Moisture resistant



APPLICATION

POLYCAB Type MC Copper Conductor 600 V Grade, THHN/THWN insulated with green insulated ground conductor, lightweight Aluminium interlocked armour cable is suitable for use as below:

- Branch, feeder, and service power distribution under high ambient temperatures in Industrial Park, institutional and residential buildings.
- Embedded in plaster.
- Concealed or exposed installation.
- Environmental air handling spaces covered by NEC 300.22(C)
- Assembly places as per NEC 518.4 and theatres as per NEC 520.5
- Installation in cable tray and approved raceways
- Information technology equipment conductors and cables as per NEC 645.5(D) & 645.5(D)(2)
- Class I & II Div. 2 and Class III Div. 1 in hazardous location.

VOLTAGE RATING

600 V

OPERATION TEMPERATURE

-40°C to +90°C

CONSTRUCTION

- Soft drawn copper conductor as per ASTM B-3
- Accompanied with insulated grounding conductor (green colour)
- Insulated with thermoplastic material PVC to UL 83
- Jacketed with Nylon (polyamide) or UL listed similar jacket compound to UL 83
- Binder tape wrapped over the conductors as per UL 1569
- Aluminium interlocking armour over the assembly

STANDARD AND REFERENCES

UL 83
ASTM B-3
UL 1569
REACH/RoHS-2
NFPA 70 (National Electrical Code), Article 330
FT4/IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray
Flame test

A-C SPARK TEST

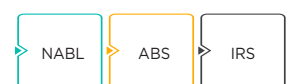
As per UL 83

COMPLIANCE

Conductor resistance test	ASTM B8
Insulation resistance	UL 83
Cold bend test	UL 83
Tension	UL 1569
Water absorption	UL 1569



OUR ACCREDITATION



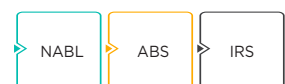
POLYCAB TYPE MC COPPER CONDUCTOR

INDUSTRIAL CABLE, UL 1569, 600 V

Conductor Size & Colours	Grounding conductor size & Colour	Insulation thickness	Approx. Overall Diameter	Approx. weight per 1000 ft
AWG	AWG	inches	inches	lbs
SOLID CONDUCTOR COLOURS 120/208 V				
12-2 Solid (Yellow/Grey)	12 Solid (Green)	0.015	0.481	109
12-2 Solid (Brown/Grey)	12 Solid (Green)	0.015	0.481	109
12-2 Solid (Orange/Grey)	12 Solid (Green)	0.015	0.481	109
12-2 Solid (Purple/Grey)	12 Solid (Green)	0.015	0.481	109
12-3 Solid (Brown/Yellow/Grey)	12 Solid (Green)	0.015	0.512	137
12-3 Solid (Brown/Orange/Grey)	12 Solid (Green)	0.015	0.512	137
12-3 Solid (Orange/Yellow/Grey)	12 Solid (Green)	0.015	0.512	137
12-4 Solid (Brown/Orange/Yellow/Grey)	12 Solid (Green)	0.015	0.545	165
10-2 Solid (Orange/Grey)	12 Solid (Green)	0.020	0.549	160
10-2 Solid (Yellow/Grey)	12 Solid (Green)	0.020	0.549	160
10-2 Solid (Brown/Grey)	12 Solid (Green)	0.020	0.549	160
10-3 Solid (Brown/Orange/Grey)	12 Solid (Green)	0.020	0.588	203
10-3 Solid (Brown/Yellow/Grey)	12 Solid (Green)	0.020	0.588	203
10-4 Solid (Brown/Orange/Yellow/Grey)	12 Solid (Green)	0.020	0.630	247
STRANDED CONDUCTOR COLOURS 277/480 V				
12-2 Stranded (Yellow/Grey)	12 Stranded (Green)	0.015	0.491	112
12-2 Stranded (Brown/Grey)	12 Stranded (Green)	0.015	0.491	112
12-2 Stranded (Orange/Grey)	12 Stranded (Green)	0.015	0.491	112
12-3 Stranded (Brown/Yellow/Grey)	12 Stranded (Green)	0.015	0.524	140
12-3 Stranded (Brown/Orange/Grey)	12 Stranded (Green)	0.015	0.524	140
12-4 Stranded (Brown/Orange/Yellow/Grey)	12 Stranded (Green)	0.015	0.558	169



OUR ACCREDITATION



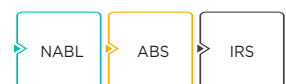
POLYTAB TYPE MC COPPER CONDUCTOR

INDUSTRIAL CABLE, UL 1569, 600 V

Conductor Size & Colours	Grounding conductor size & Colour	Insulation thickness	Approx. Overall Diameter	Approx. weight per 1000 ft
AWG	AWG	inches	inches	lbs
10-2 Stranded (Brown/Grey)	10 Stranded (Green)	0.020	0.561	163
10-3 Stranded (Brown/Orange/Grey)	10 Stranded (Green)	0.020	0.602	207
10-4 Stranded (Brown/Orange/Yellow/Grey)	10 Stranded (Green)	0.020	0.645	250
INTERMEDIATE CONDUCTOR COLOURS 120/208 V				
8-2 Stranded (Black/White)	10 Stranded (Green)	0.030	0.668	225
8-2 Stranded (Red/White)	10 Stranded (Green)	0.030	0.668	225
8-2 Stranded (Blue/White)	10 Stranded (Green)	0.030	0.668	225
8-3 Stranded (Black/White/Red)	10 Stranded (Green)	0.030	0.722	294
8-3 Stranded (Red/Blue/White)	10 Stranded (Green)	0.030	0.722	294
8-4 Stranded (Black/White/Red/Blue)	10 Stranded (Green)	0.030	0.779	364
6-2 Stranded (Black/White)	8 Stranded (Green)	0.030	0.746	326
6-3 Stranded (Black/White/Red)	8 Stranded (Green)	0.030	0.809	429
6-4 Stranded (Black/Red/White/Blue)	8 Stranded (Green)	0.030	0.877	533
4-3 Stranded (Black/White/Red)	8 Stranded (Green)	0.040	0.969	619
4-4 Stranded (Black/White/Red/Blue)	8 Stranded (Green)	0.040	1.055	782
3-3 Stranded (Black/White/Red)	6 Stranded (Green)	0.040	1.033	768
3-4 Stranded (Black/White/Red/Blue)	6 Stranded (Green)	0.040	1.126	968
2-3 Stranded (Black/White/Red)	6 Stranded (Green)	0.040	1.105	912
2-4 Stranded (Black/White/Red/Blue)	6 Stranded (Green)	0.040	1.207	1158
STRANDED CONDUCTOR COLOURS 277/480 V				
8-2 Stranded (Brown/Grey)	10 Stranded (Green)	0.030	0.668	225
8-2 Stranded (Yellow/Grey)	10 Stranded (Green)	0.030	0.668	225



OUR ACCREDITATION



POLYTAB TYPE MC COPPER CONDUCTOR

INDUSTRIAL CABLE, UL 1569, 600 V

Conductor Size & Colours	Grounding conductor size & Colour	Insulation thickness	Approx. Overall Diameter	Approx. weight per 1000 ft
AWG	AWG	inches	inches	lbs
8-2 Stranded (Orange/Grey)	10 Stranded (Green)	0.030	0.668	225
8-3 Stranded (Brown/Orange/Grey)	10 Stranded (Green)	0.030	0.722	294
8-3 Stranded (Brown/Orange/Yellow)	10 Stranded (Green)	0.030	0.722	294
INTERMEDIATE CONDUCTOR COLOURS 277/480 V				
6-2 Stranded (Brown/Grey)	8 Stranded (Green)	0.030	0.746	326
6-2 Stranded (Yellow/Grey)	8 Stranded (Green)	0.030	0.746	326
6-3 Stranded (Brown/Orange/Yellow)	8 Stranded (Green)	0.030	0.809	429
6-3 Stranded (Brown/Orange/Yellow)	8 Stranded (Green)	0.030	0.809	429
6-4 Stranded (Brown/Orange/Yellow/Grey)	8 Stranded (Green)	0.030	0.877	533
4-3 Stranded (Brown/Orange/Yellow)	8 Stranded (Green)	0.040	0.969	619
4-4 Stranded (Brown/Orange/Yellow/Grey)	8 Stranded (Green)	0.040	1.055	782
2-3 Stranded (Brown/Orange/Yellow)	6 Stranded (Green)	0.040	1.105	912
2-4 Stranded (Brown/Orange/Yellow/Grey)	6 Stranded (Green)	0.040	1.207	1158

ELECTRICAL CHARACTERISTICS

Allowable ampacity and maximum conductor DC resistance.

Conductor size	*Allowable ampacity	Maximum DC conductor resistance at 20°C for solid	Maximum DC conductor resistance at 20°C for stranded
AWG	Amp.	Ohm/km	Ohm/km
14	25	8.45	8.62
12	30	5.31	5.43
10	40	3.34	3.41
8	55	2.10	2.14
6	75	1.32	1.35
4	95	0.832	0.848
3	115	0.660	0.673
2	130	0.523	0.534



OUR ACCREDITATION

