



Images not to scale. Follow table for dimensions

## APPLICATION

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

- Suitable for wet location as per NEC 330.10(11)
- Direct burial applications, embedded in concrete, and where exposed to cinder fills, strong chlorides, caustic alkalis, or vapours of chlorine or of hydrochloric acids.
- Branch, feeder, and service power distribution under high ambient temperatures in Industrial park, institutional and residential buildings.
- Embedded in plaster.
- Concealed installation.
- Assembly places as per NEC 518.4 and theatres per NEC 520.5
- Installation in cable tray and approved raceways, or as aerial cable on messenger.
- Under raised floors for 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.

## CHARACTERISTICS

**Voltage Rating**  
600 V

**Operation Temperature**  
-40°C to 90°C

## CONSTRUCTION

- Soft drawn copper conductor as per ASTM B3 and ASTM B8
- 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
- Sunlight resistant overall PVC jacketed

**A-C Spark Test**  
As per UL 83

## OUTSTANDING FEATURES

- Heat resistant
- Sunlight resistant
- Moisture resistant

## STANDARD FOLLOWS

UL 83  
ASTM B3  
ASTM B8  
UL 1569  
REACH/RoHS-2  
NFPA 70 (National Electrical Code), Article 330  
FT4/IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray Flame test

## COMPLIANCE

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

## OUR ACCREDITATIONS



# POLY CAB Type MC PVC Jacketed Copper Conductor Industrial Cable, UL 1569, 600 V

**POLY CAB**  
IDEAS. CONNECTED.

## Dimensional Characteristics:

Conductor Size & Colours AWG	Grounding conductor size & Colour AWG	Insulation thickness inches	Approx. Overall Diameter inches	Approx. weight per 1000 lbs
SOLID CONDUCTOR COLOURS 120/208 V				
14-2 Solid (Black/White)	14 Solid (Green)	0.015	0.545	132
14-3 Solid (Black/White/Red)	14 Solid (Green)	0.015	0.572	154
12-2 Solid (Black/White)	12 Solid (Green)	0.015	0.581	165
12-2 Solid (Red/White)	12 Solid (Green)	0.015	0.581	165
12-2 Solid (Blue/White)	12 Solid (Green)	0.015	0.581	165
12-3 Solid (Black/White/Red)	12 Solid (Green)	0.015	0.612	196
12-4 Solid (black/White/Red/Blue)	12 Solid (Green)	0.015	0.645	227
10-2 Solid (Black/White)	10 Solid (Green)	0.020	0.649	223
10-2 Solid (Red/White)	10 Solid (Green)	0.020	0.649	223
10-2 Solid (Blue/white)	10 Solid (Green)	0.020	0.649	223
10-3 Solid (Black/White/Red)	10 Solid (Green)	0.020	0.688	271
10-4 Solid (Black/White/Red/Blue)	10 Solid (Green)	0.020	0.730	318
STRANDED CONDUCTOR COLOURS 120/208 V				
12-2 Stranded (Black/White)	12 Stranded (Green)	0.015	0.592	169
12-3 Stranded (Black/White/Red)	12 Stranded (Green)	0.015	0.624	201
12-4 Stranded (Black/White/Red/Blue)	12 Stranded (Green)	0.015	0.658	233
10-2 Stranded	10 Stranded	0.020	0.661	228

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# POLY CAB Type MC PVC Jacketed Copper Conductor Industrial Cable, UL 1569, 600 V

**POLY CAB**  
IDEAS. CONNECTED.

Conductor Size & Colours	Grounding conductor size & Colour	Insulation thickness inches	Approx. Overall Diameter inches	Approx. weight per 1000 lbs
AWG (Black/White)	AWG (Green)			
10-2 Stranded (Red/White)	10 Stranded (Green)	0.020	0.661	228
10-2 Stranded (Blue/White)	10 Stranded (Green)	0.020	0.661	228
10-3 Stranded (Black/White/Red)	10 Stranded (Green)	0.020	0.702	275
10-4 Stranded (Black/White/Red/Blue)	10 Stranded (Green)	0.020	0.745	324
SOLID CONDUCTOR COLOURS 277/480 V				
14-3 Solid (Brown/Orange/Grey)	14 Solid (Green)	0.015	0.572	154
12-2 Solid (Yellow/Grey)	12 Solid (Green)	0.015	0.581	165
12-2 Solid (Brown/Grey)	12 Solid (Green)	0.015	0.581	165
12-2 Solid (Orange/Grey)	12 Solid (Green)	0.015	0.581	165
12-3 Solid (Brown/Yellow/Grey)	12 Solid (Green)	0.015	0.612	196
12-3 Solid (Brown/Orange/Grey)	12 Solid (Green)	0.015	0.612	196
10-2 Solid (Orange/Grey)	10 Solid (Green)	0.020	0.649	223
10-2 Solid (Yellow/Grey)	10 Solid (Green)	0.020	0.649	223
10-2 Solid (Brown/Grey)	10 Solid (Green)	0.020	0.649	223
10-3 Solid (Brown/Orange/Grey)	10 Solid (Green)	0.020	0.688	271
10-3 Solid (Brown/Yellow/Grey)	10 Solid (Green)	0.020	0.688	271
10-4 Solid (Brown/Orange/Yellow/Grey)	10 Solid (Green)	0.020	0.730	318

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**POLY CAB**  
IDEAS. CONNECTED.

Conductor Size & Colours	Grounding conductor size & Colour	Insulation thickness	Approx. Overall Diameter	Approx. weight per 1000
AWG	AWG	inches	inches	lbs
STRANDED CONDUCTOR COLOURS 277/480 V				
10-2 Stranded (Orange/Grey)	10 Stranded (Green)	0.020	0.661	228
10-2 Stranded (Yellow/Grey)	10 Stranded (Green)	0.020	0.661	228
INTERMEDIATE CONDUCTOR COLOURS 120/208 V				
8-2 Stranded (Black/White)	10 Stranded (Green)	0.030	0.768	301
8-3 Stranded (Black/White/Red)	10 Stranded (Green)	0.030	0.822	376
8-4 Stranded (Black/White/Red/Blue)	10 Stranded (Green)	0.030	0.879	451
6-2 Stranded (Black/White)	8 Stranded (Green)	0.030	0.847	410
6-3 Stranded (Black/White/Red)	8 Stranded (Green)	0.030	0.909	520
6-4 Stranded (Black/Red/White/Blue)	8 Stranded (Green)	0.030	0.977	631
4-3 Stranded (Black/White/Red)	8 Stranded (Green)	0.040	1.069	727
4-4 Stranded (Black/White/Red/Blue)	8 Stranded (Green)	0.040	1.155	899
3-3 Stranded (Black/White/Red)	6 Stranded (Green)	0.040	1.133	883
3-4 Stranded (Black/White/Red/Blue)	6 Stranded (Green)	0.040	1.227	1092
2-3 Stranded (Black/White/Red)	6 Stranded (Green)	0.040	1.205	1035
2-4 Stranded (Black/White/Red/Blue)	6 Stranded (Green)	0.040	1.307	1291

Above values are approximate and subject to standard manufacturing tolerance

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IDEAS. CONNECTED.

## Electrical characteristics

Conductor size AWG	*Allowable ampacity Amp.	Maximum DC conductor resistance at 20° for solid		Maximum DC conductor resistance at 20° for stranded	
		Ohm/km	Ohm/km	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	

\*Table is as per NEC 310.15(B)(16) & As per NEC 310.15(B)(5), the ampacity of 4 core cable shall be reduced by a factor of 0.80 when neutral is considered a current carrying conductor.