

### Special Features

- Heat resistant
- Oil resistant (PR II)
- Sunlight resistant
- Gasoline resistant
- Moisture resistant

### Application

POLYCAB AL THHN, cable with AA8000 series aluminium conductor, thermoplastic insulation/Nylon sheath is intended to use in conduit and cable trays for services and branch circuits in commercial or industrial application as specified in National Electrical Code 2011. Type THHN or T90 Nylon is suitable to use in dry location with ambient temperature not exceeding 90°C. Type THWN-2 or TWN75 is suitable to use in wet or dry location with ambient temperature not exceeding 90°C or not to exceed 75°C when exposed to oil or coolant.

### Voltage Rating

600 V

### Operation Temperature

-40°C to 90°C

### Construction

- AA-8000 series stranded compacted Aluminium Alloy conductor as per ASTM B-801
- Insulated with Heat and moisture resistant PVC compound to UL 83
- Jacketed with Nylon (polyamide) or UL listed similar jacket compound to UL 83

### Core Identification

Conductor Size 1/0 AWG are marked as sunlight resistant in colours. Also available in Red, Black, White, Blue, Purple, Green, Yellow, Orange, Brown, and Grey. Some products are also available with longitudinal strip marking. Some colours are available subject to economic order quantity.

### Bending Radii

12 x Overall Diameter

### Standard and References

UL 83  
ASTM B-801  
VW-1 of UL 83  
FT-1 of UL 83  
NEC, NFPA 70, 2011 Edition  
RoHS/REACH Compliant

### A-C Spark Test

As per UL 83

### Compliance

Conductor resistance test	ASTM B-801
Insulation resistance	UL 83
Cold bend test	UL 83
Vertical flame test	UL 83
Smoke emission	UL 83
Fire propagation	UL 83
Halogen acid gas emission	UL 83
Oil resistant (PR II)	UL 83

# POLYCAB AL THHN

## Industrial Cable, UL 83, 600 V AC



Connection Zindagi Ka

No. of core	Conductor size AWG or kcmil	Number of strands	Insulation thickness mils	Nominal overall diameter mils	Approximate weight per 1000 lbs
1	8	7	30	205	27
1	6	7	30	241	39
1	4	7	40	307	62
1	2	7	40	363	90
1	1	18	50	431	119
1	1/0	18	50	452	143
1	2/0	18	50	492	172
1	3/0	18	50	539	210
1	4/0	18	50	591	257
1	250	22	60	660	312
1	300	35	60	705	364
1	350	35	60	751	418
1	400	35	60	795	472
1	500	35	60	870	572
1	600	58	70	981	699
1	700	58	70	1048	805
1	750	58	70	1080	858

### Electrical characteristics

Allowable ampacity and DC resistance.

Conductor Size AWG	*Allowable ampacity Amp.			Maximum DC resistance at 20°C Ω/km
	60°C	75°C	90°C	
8	35	40	45	3.4464
6	40	50	60	2.1684
4	55	65	75	1.3633
2	75	90	100	0.8573
1	85	100	115	0.6798
1/0	100	120	135	0.5387
2/0	115	135	150	0.4275
3/0	130	155	175	0.3389
4/0	150	180	205	0.2690
250	170	205	230	0.2277
300	195	230	260	0.1896
350	210	250	280	0.1624
400	225	270	305	0.1424
500	260	310	350	0.1139
600	285	340	385	0.0948
700	310	375	420	0.0814
750	320	385	435	0.0758

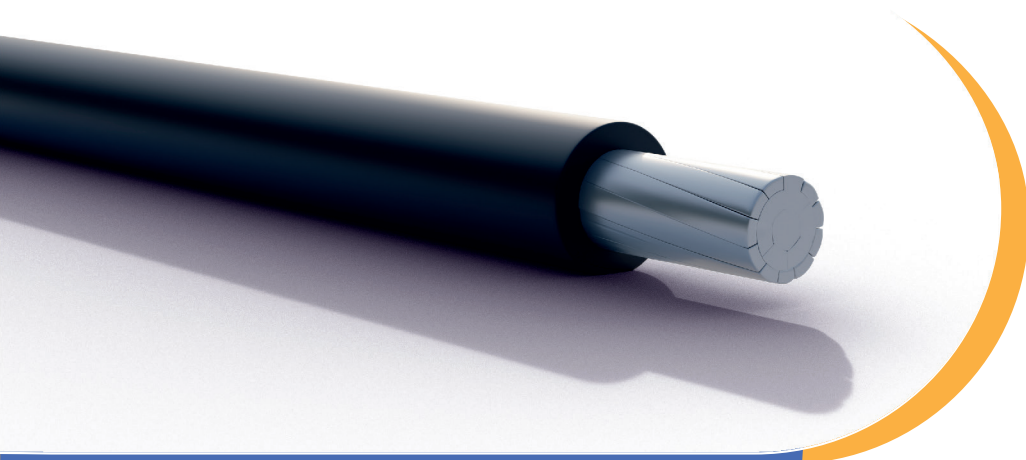
\*Allowable ampacities shown are for general use as specified by the National Electrical Code 2011 Edition Section 310.16 & 240.4(D).

60°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

75°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

90°C – THHN dry location and THWN wet or dry location for ampacity adjustment purposes using NEC section





### Special Features

- Heat resistant
- Oil resistant (PR II)
- Sunlight resistant
- Gasoline resistant
- Moisture resistant

### Application

POLYCAB AL XHHW-2, cable with AA8000 series aluminium conductor, cross linked polyethylene insulation is intended to use in conduit and cable trays for services, feeders, and branch circuits in commercial or industrial application as specified in National Electrical Code 2011. Type XHHW-2 is suitable to use in wet or dry location with ambient temperature not exceeding 90°C and recommended for application in health care facilities as per section 517.160 of NEC where dielectric constant less than 3.5 may be specified. The cable is designed to be installed without the application of pulling lubricants.

### Voltage Rating

600 V

### Operation Temperature

-40°C to 90°C

### Construction

- AA-8000 series stranded compacted Aluminium Alloy conductor as per ASTM B-801
- Insulated with abrasion, moisture, and heat resistant thermoset cross linked polyethylene to UL 44

### Core Identification

Conductor Size 2 AWG and larger are marked as sunlight resistant in Black colours only. Other Colours are available and may be subject to economic order quantity.

### Bending Radii

12 x Overall Diameter

### Standard and References

UL 44  
ASTM B-801  
NEC, NFPA 70, 2011 Edition  
NEMA WC 70 construction requirement  
RoHS/REACH Compliant

### A-C Spark Test

As per UL 44

### Compliance

Conductor resistance test	ASTM B-801
Insulation resistance	UL 44
Cold bend test	UL 44
Flame and smoke test	UL 44
Smoke emission	UL 44
Fire propagation	UL 44
Halogen acid gas emission	UL 44
Weather resistant	UL 44
Oil resistant (PR II)	UL 44
Gasoline & oil resistance	UL 44

# POLYCAB AL XHHW

## Industrial Cable, UL 44, 600 V AC



Connection Zindagi Ka

No. of core	Conductor size AWG or kcmil	Number of strands	Insulation thickness mils	Nominal overall diameter mils	Approximate weight per 1000 lbs
1	8	7	45	225	29
1	6	7	45	261	39
1	4	7	45	305	56
1	2	7	45	361	82
1	1	18	55	427	107
1	1/0	18	55	448	130
1	2/0	18	55	488	158
1	3/0	18	55	535	195
1	4/0	18	55	587	240
1	250	22	65	655	290
1	300	35	65	700	340
1	350	35	65	746	392
1	400	35	65	790	444
1	500	35	65	865	542
1	600	58	80	983	665
1	700	58	80	1050	768
1	750	58	80	1081	819

### Electrical characteristics

Allowable ampacity and DC resistance.

Conductor Size AWG	*Allowable ampacity Amp.			Maximum DC resistance at 20°C
	60°C	75°C	90°C	Ω/km
8	35	40	45	3.4464
6	40	50	60	2.1684
4	55	65	75	1.3633
2	75	90	100	0.8573
1	85	100	115	0.6798
1/0	100	120	135	0.5387
2/0	115	135	150	0.4275
3/0	130	155	175	0.3389
4/0	150	180	205	0.2690
250	170	205	230	0.2277
300	195	230	260	0.1896
350	210	250	280	0.1624
400	225	270	305	0.1424
500	260	310	350	0.1139
600	285	340	385	0.0948
700	310	375	420	0.0814
750	320	385	435	0.0758

\*Allowable ampacities shown are for general use as specified by the National Electrical Code 2011 Edition Section 310.16 & 240.4(D).

60°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

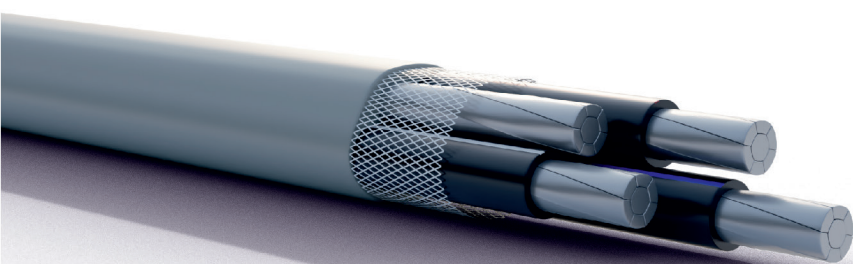
75°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

90°C – XHHW wet or dry locations for ampacity adjustment purposes using NEC section 310.16

\*For compact stranded construction the number of wires as permitted by UL 44 and ASTM B-801 may be reduced as follows

19 wire Construction - 18 wires minimum | 37 wire Construction – 35 wire minimum | 61 wire Construction – 58 wires minimum





### Special Features

- Heat resistant
- Sunlight resistant
- Moisture resistant
- Halogen free

### Application

POLYCAB Aluminium SE, service entrance cable is recommended to use to transmit power from service point to the meter base and from the meter base to the distribution panel board. Further, it may be used in all applications where Type SE cable is permitted. SE may be used in wet or dry locations above the ground at ambient temperature not to exceed 90°C.

### Voltage Rating

600 V

### Operation Temperature

-40°C to 90°C

### Construction

- AA-8000 series stranded compacted Aluminium Alloy conductor as per ASTM B-801
- Accompanied with bare grounding conductor
- Insulated with a sunlight resistant Type XHHW-2 or Type THHN/THWN-2 to UL 44 or UL 83 respectively.
- A reinforced tape is applied over the conductors for additional strength
- Sunlight resistant PVC jacket over the complete assembly

### Core Identification

Phase conductors are identified by a coloured stripes on the insulation

Number of conductors	Colour sequence 120/208Y
3	Black, Black with Red stripe
4	Black, Black with White stripe, and Black with Red stripe
5	Black, Black with White stripe, Black with Red stripe, and Black with Blue stripe

### Bending Radii

12 x Overall Diameter

### Standard and References

UL 44  
 UL 83  
 ASTM B-801  
 UL 854  
 National Electrical Code/NFPA 70,2011 Edition

### A-C Spark Test

As per UL 44

### Compliance

Conductor resistance test	ASTM B-801
Insulation resistance	UL 44
Cold bend test	UL 44
Flame test	UL 1581
Vertical tray flame test	UL 854

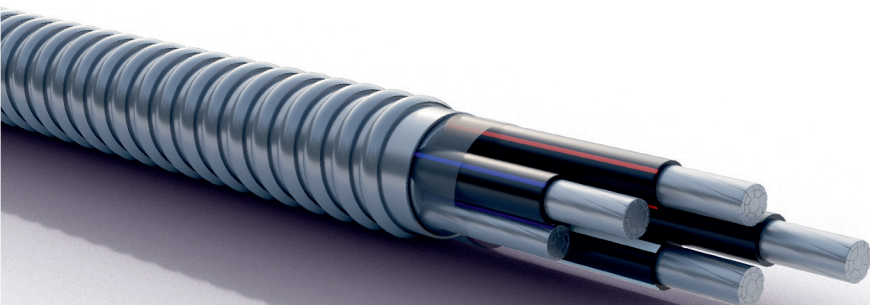
No. of core	Conductor size AWG or kcmil	Insulation thickness mils	Nominal overall diameter mils	Approximate weight per 1000 lbs
SER Aluminium Two conductor with Bare ground (Formerly referred as "Three conductor")				
3	6-6-6	45	591	142
3	4-4-4	45	674	196
3	4-4-6	45	674	183
3	2-2-2	45	791	282
3	2-2-4	45	791	259
3	2/0-2/0-1	55	898	445
3	2/0-2/0-2/0	55	898	491
3	4/0-4/0-2/0	55	1263	692
3	4/0-4/0-4/0	55	1263	764
SER Aluminium Three conductor with Bare ground (Formerly referred as "Four conductor")				
4	8-8-8-8	45	554	135
4	6-6-6-6	45	633	185
4	4-4-4-6	45	727	243
4	2-2-2-4	45	848	345
4	1-1-1-3	55	966	437
4	1/0-1/0-1/0-2	55	1036	524
4	2/0-2/0-2/0-1	55	1122	629
4	3/0-3/0-3/0-1/0	55	1223	765
4	4/0-4/0-4/0-2/0	55	1336	931
4	250-250-250-3/0	65	1501	1127
4	300-300-300-4/0	65	1608	1324
SER Aluminium Four conductor with Bare ground (Formerly referred as "Five conductor")				
5	2-2-2-2-4	45	942	433
5	2/0-2/0-2/0-2/0-1	55	1249	795
5	4/0-4/0-4/0-4/0-2/0	55	1488	1179
5	250-250-250-250-3/0	65	1673	1426
5	300-300-300-300-4/0	65	1793	1674

### Electrical characteristics

Allowable ampacity and DC resistance.

Conductor Size AWG	*Allowable ampacity Amp.			Maximum DC resistance at 20°C Ω/km
	60°C	75°C	90°C	
8	35	40	45	3.4464
6	40	50	60	2.1684
4	55	65	75	1.3633
2	75	90	100	0.8573
1	85	100	115	0.6798
1/0	100	120	135	0.5387
2/0	115	135	150	0.4275
3/0	130	155	175	0.3389
4/0	150	180	205	0.2690
250	170	205	230	0.2277
300	195	230	260	0.1896

The above reflects XHHW-2 conductor \*Allowable ampacities shown are for general use as specified by the NEC 2011 Edition Section 310.16.  
 60°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.  
 75°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.  
 90°C – wet or dry locations for ampacity derating purposes



### Special Features

- Heat resistant
- Sunlight resistant
- Moisture resistant
- Halogen free

### Application

POLYCAB Type MC Aluminium Conductor, is suitable for use as follows

- Branch, feeder, and service power distribution under high ambient temperatures in commercial, industrial institutional and multi residential buildings.
- Power, lighting, control, and signal circuits.
- Fished or embedded in plaster.
- Concealed or exposed installation.
- Places of assembly per NEC 518.4 and theatres per NEC 520.5
- Installation under cable tray and approved raceways
- 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 (as per NEC 645.5(D) & 645.5(D)(2))

### Voltage Rating

600 V

### Operation Temperature

-40°C to 90°C

### Construction

- AA-8000 series stranded compacted Aluminium Alloy conductor as per ASTM B-801
- Accompanied with bare grounding conductor
- Insulated with abrasion, moisture, and heat resistant thermoset cross linked polyethylene to UL 44
- Binder tape wrapped over the conductors as per UL 1569
- Aluminium interlocking armour over the assembly

### Core Identification

Phase conductors are Black with three extruded stripes

Number of conductors	Colour sequence 120/208Y
3	Black, Red, or White Striped
4	Black, Red, Blue, or striped
Grounding conductor	Bare

### Bending Radii

12 x Overall Diameter

### Standard and References

UL 44  
ASTM B-801  
UL 1569  
ICEA S-95-658 (NEMA WC 70)  
National Electrical Code  
IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray  
Flame test

### A-C Spark Test

As per UL 44

### Compliance

Conductor resistance test	ASTM B-801
Insulation resistance	UL 44
Cold bend test	UL 44
Tension	UL 1569
Water absorption	UL 1569

No. of core	Conductor size AWG	Bare grounding conductor Size AWG	Insulation thickness inches	Approximate diameter over armour inches	Approximate weight per 1000 lbs
3	6	6	0.045	0.742	231
4	6	6	0.045	0.810	279
3	4	6	0.045	0.837	296
4	4	6	0.045	0.916	363
3	2	4	0.045	0.958	408
4	2	4	0.045	1.052	503
3	1	4	0.055	1.100	502
4	1	4	0.055	1.211	625

### Electrical characteristics

Allowable ampacity and DC resistance.

Conductor Size AWG	*Allowable ampacity Amp.		Maximum DC resistance at 20°C
	75°C	90°C	Ω/km
6	50	60	2.1684
4	65	75	1.3633
2	90	100	0.8573
1	100	115	0.6798

\*Allowable ampacities shown are for general use as specified by the National Electrical Code 2011 Edition Section 310.16 & 240.4(D).

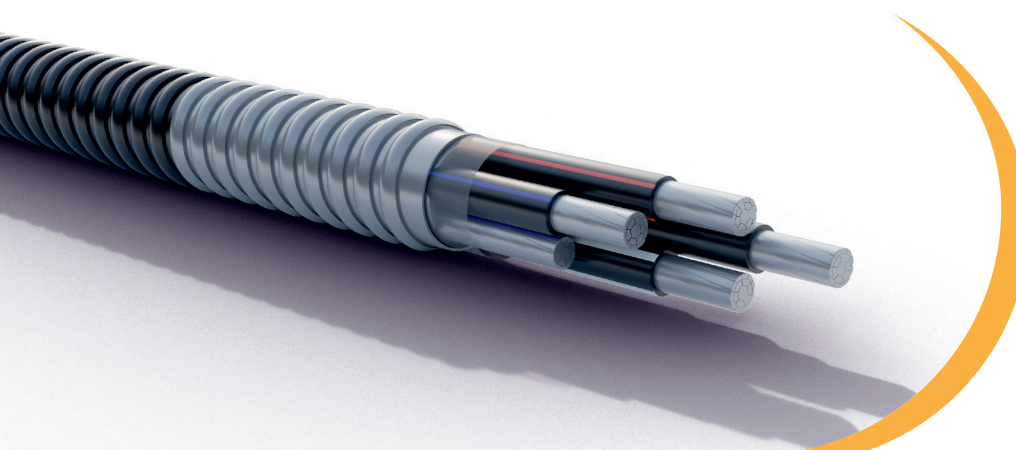
60°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

75°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

90°C – XHHW wet or dry locations for ampacity adjustment purposes using NEC section 310.16

**As per NEC 310.15(B)(2)(a) the ampacity of 4/c cables shall be reduced by a factor of 0.8 when the neutral is considered a current carrying conductor**





### Special Features

- Heat resistant
- Oil resistant (PR II)
- Sunlight resistant
- Gasoline resistant
- Moisture resistant

### Application

POLYCAB Type MC PVC Jacketed AL Conductor, Type MC cable with flame retardant sunlight resistant PVC jacket is suitable for use as follows

- Direct burial application, installation in concrete and where exposed to cinder fills, strong chlorides, caustic alkalis or vapours of chlorine or hydrochloric acids.
- Branch, feeder, and service power distribution under high ambient temperatures in commercial, industrial institutional and multi residential buildings.
- Power, lighting, control, and signal circuits, fished or embedded in plaster, concealed or exposed installation, places of assembly per NEC 518.4 and theatres per NEC 520.5

### Voltage Rating

600 V

### Operation Temperature

-40°C to 90°C

### Construction

- AA-8000 series stranded compacted Aluminium Alloy conductor as per ASTM B-801
- Accompanied with grounding conductor
- Insulated with abrasion, moisture, and heat resistant thermoset cross linked polyethylene to UL 44
- Binder tape wrapped over the conductors as per UL 1569
- Aluminium interlocking armour over the assembly
- Jacketed with sunlight resistant PVC compound to UL 1569

### Core Identification

Phase conductors are Black with three extruded stripes

Number of conductors	Colour sequence
	120/208Y
3	Black, Red, or White Striped
4	Black, Red, Blue, or striped
Grounding conductor	Bare

- As aerial cable on messenger
- Installation under cable tray and approved raceways
- 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 (as per NEC 645.5(D) & 645.5(D)(2))

### Bending Radii

12 x Overall Diameter

### Standard and References

UL 44  
 ASTM B-801  
 UL 1569  
 ICEA S-95-658 (NEMA WC 70)  
 National Electrical Code  
 IEEE 1202 (70,000 Btu/hr) Vertical Cable Tray  
 Flame test

### A-C Spark Test

As per UL 44

### Compliance

Conductor resistance test	ASTM B-801
Insulation resistance	UL 44
Cold bend test	UL 44
Tension	UL 1569
Water absorption	UL 1569
Sunlight resistance	UL 1569
Oil resistant (PR II)	UL 44
Gasoline & oil resistance	UL 44

No. of core	Conductor size AWG	Bare grounding conductor Size AWG	Insulation thickness inches	Approximate diameter over armour inches	Approximate diameter Jacket inches	Approximate weight per 1000 lbs
3	6	6	0.045	0.742	0.842	306
4	6	6	0.045	0.810	0.910	361
3	4	6	0.045	0.837	0.937	381
4	4	6	0.045	0.916	1.016	457
3	2	4	0.045	0.958	1.058	506
4	2	4	0.045	1.052	1.152	612
3	1	4	0.055	1.100	1.200	617
4	1	4	0.055	1.211	1.311	751

### Electrical characteristics

Allowable ampacity and DC resistance.

Conductor Size AWG	*Allowable ampacity Amp.		Maximum DC resistance at 20°C
	75°C	90°C	Ω/km
6	50	60	2.1684
4	65	75	1.3633
2	90	100	0.8573
1	100	115	0.6798

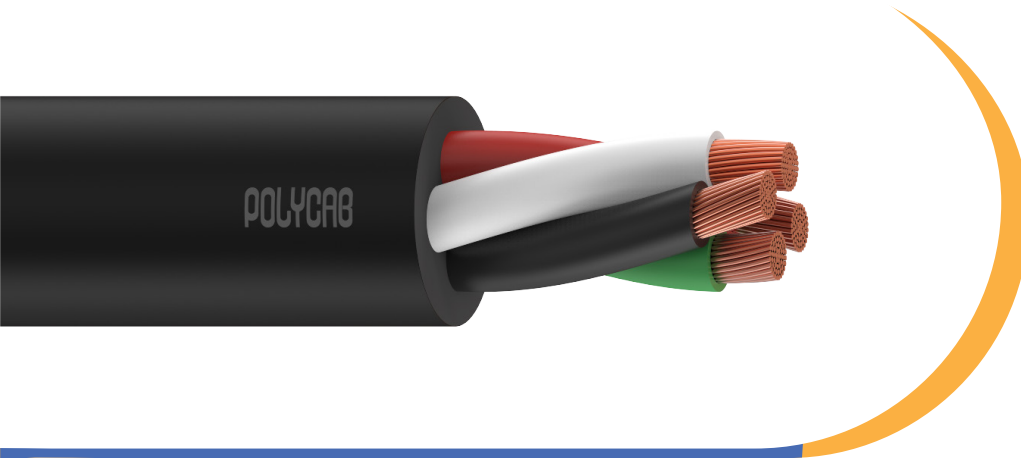
\*Allowable ampacities shown are for general use as specified by the National Electrical Code 2011 Edition Section 310.16.

60°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

75°C – When terminated to equipment for circuit rated 100 ampere or less or marked for 14 through 1AWG conductor.

90°C – For ampacity derating purposes

**As per NEC 310.15(B)(2)(a) the ampacity of 4/c cables shall be reduced by a factor of 0.8 when the neutral is considered a current carrying conductor**



### Special Features

- Heat resistant
- Oil resistant
- Moisture resistant

### Application

POLYCAB Type SJOOW, moisture and oil resistant EPDM rubber insulated, and heat, moisture and oil resistant flexible CPE jacketed cable is designed for hard usage on industrial equipment, heavy tools, battery chargers, portable lights welding leads, marine dockside power, power extension and mining applications.

### Voltage Rating

300V

### Operation Temperature

-40°C to 90°C

### Construction

- Annealed plain copper conductor, Class K as per ASTM B-33
- Insulated with insulation cl. 3 moisture and oil resistant EPDM as per UL 62
- Jacketed with jacket cl.1.4 Heat, moisture, and oil resistant CPE to UL 62

### Core Identification

Number of conductors	Core Colour
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green

### Bending Radii

Fixed installation      5 x Overall Diameter  
Occasional              4 x Overall Diameter

### Standard and References

UL 62  
ASTM B-33  
UL 2556  
NEC 400.5(A)

### A-C Spark Test

18 -11 AWG      6 kV  
10 AWG            7.5 kV

### Compliance

Conductor resistance test	UL 62
Insulation resistance	UL 62
Cold bend test	UL 62
Flame test	UL 62
Weather resistance	UL 62
Permittivity & stability factor	UL 62
Jacket resistance test	UL 62
Oil resistance test	UL 62

No. of core	Conductor size	No. of Strand	Insulation thickness	Insulation thickness	Nominal Overall Diameter	Nominal Overall Diameter	Approximate weight	Approximate weight
	AWG		inches	mm	inches	mm	Lbs/Mft	Kg/km
2	18	16/30	0.030	0.76	0.27	6.95	36	54
3	18	16/30	0.030	0.76	0.29	7.38	46	69
4	18	16/30	0.030	0.76	0.32	8.08	57	85
2	16	26/30	0.030	0.76	0.30	7.59	45	68
3	16	26/30	0.030	0.76	0.32	8.07	59	88
4	16	26/30	0.030	0.76	0.35	8.85	74	110
2	14	41/30	0.030	0.76	0.33	8.34	58	86
3	14	41/30	0.030	0.76	0.35	8.88	78	115
4	14	41/30	0.030	0.76	0.38	9.76	98	146
2	12	65/30	0.030	0.76	0.40	10.06	89	132
3	12	65/30	0.030	0.76	0.42	10.68	118	175
4	12	65/30	0.030	0.76	0.46	11.68	148	220
2	10	104/30	0.045	1.14	0.54	13.58	151	225
3	10	104/30	0.045	1.14	0.57	14.42	200	298
4	10	104/30	0.045	1.14	0.62	15.78	252	375

### Electrical characteristics

Allowable ampacity and maximum DC resistance.

No. of core	Conductor size	*Allowable ampacity Amp.	Maximum DC resistance at 20°C
	AWG	Ampere	Ω/km
2	18	10	22.4
3	18	10	22.4
4	18	7	22.4
2	16	13	14.1
3	16	13	14.1
4	16	10	14.1
2	14	18	8.88
3	14	18	8.88
4	14	15	8.88
2	12	25	5.58
3	12	25	5.58
4	12	20	5.58
2	10	30	3.51
3	10	30	3.51
4	10	25	3.51

\*Ampacities are based on Table 400.5(A) of the 2014 National Electrical Code.



### Special Features

- Heat resistant
- Oil resistant
- Moisture resistant

### Application

POLYCAB Type SOOW, EPDM rubber insulated heat, moisture and oil resistant flexible CPE jacket cable is designed for extra hard usage on industrial equipment, heavy tools, battery chargers, portable lights welding leads, marine dockside power, power extension and mining applications.

### Voltage Rating

600V

### Operation Temperature

-40°C to 90°C

### Construction

- Annealed plain copper conductor, Class K as per ASTM B-33
- Insulated with insulation cl. 3 moisture and oil resistant EPDM as per UL 62
- Jacketed with jacket cl. 1.4 Heat, moisture, and oil resistant CPE to UL 62

### Core Identification

Number of conductors	Core Colour
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Green, Orange

### Bending Radii

Fixed installation      5 x Overall Diameter  
Occasional                4 x Overall Diameter

### Standard and References

UL 62  
ASTM B-33  
UL 2556  
NEC 400.5(A)

### A-C Spark Test

18 -15 AWG    6 kV  
14 -10 AWG    7.5 kV

### Compliance

Conductor resistance test	UL 62
Insulation resistance	UL 62
Cold bend test	UL 62
Flame test	UL 62
Weather resistance	UL 62
Permittivity & stability factor	UL 62
Jacket resistance test	UL 62
Oil resistance test	UL 62

# POLYCAB Type SOOW

## Flexible Cords, UL 62, 600 V AC



Connection Zindagi Ka

No. of core	Conductor size	No. of Strand	Insulation thickness	Insulation thickness	Nominal Overall Diameter	Nominal Overall Diameter	Approximate weight	Approximate weight
	AWG		inches	mm	inches	mm	Lbs/Mft	Kg/km
2	18	16/30	0.030	0.76	0.334	8.47	67	100
3	18	16/30	0.030	0.76	0.351	8.9	77	115
4	18	16/30	0.030	0.76	0.378	9.6	91	135
5	18	16/30	0.030	0.76	0.448	11.37	123	183
2	16	26/30	0.030	0.76	0.360	9.14	82	122
3	16	26/30	0.030	0.76	0.379	9.62	96	143
4	16	26/30	0.030	0.76	0.410	10.4	115	170
5	16	26/30	0.030	0.76	0.483	12.26	154	229
2	14	41/30	0.045	1.14	0.490	12.44	142	212
3	14	41/30	0.045	1.14	0.516	13.1	167	248
4	14	41/30	0.045	1.14	0.558	14.17	199	296
5	14	41/30	0.045	1.14	0.634	16.09	254	378
2	12	65/30	0.045	1.14	0.528	13.4	171	255
3	12	65/30	0.045	1.14	0.557	14.14	205	305
4	12	65/30	0.045	1.14	0.604	15.34	248	369
5	12	65/30	0.045	1.14	0.685	17.39	315	469
2	10	104/30	0.045	1.14	0.606	15.39	233	347
3	10	104/30	0.045	1.14	0.639	16.23	282	419
4	10	104/30	0.045	1.14	0.693	17.59	342	509
5	10	104/30	0.045	1.14	0.751	19.06	407	606

### Electrical characteristics

Allowable ampacity and DC resistance.

No. of core	Conductor size	*Allowable ampacity	Maximum DC resistance at
	AWG	Amp.	20°C
		Ampere	Ω/km
2	18	10	22.4
3	18	10	22.4
4	18	7	22.4
5	18	5.6	22.4
2	16	13	14.1
3	16	13	14.1
4	16	10	14.1
5	16	8	14.1
2	14	18	8.88
3	14	18	8.88
4	14	15	8.88
5	14	12	8.88
2	12	25	5.58
3	12	25	5.58
4	12	20	5.58
5	12	16	5.58
2	10	30	3.51
3	10	30	3.51
4	10	25	3.51
5	10	20	3.51

\*Ampacities are based on Table 400.5(A) of the 2014 National Electrical Code.





### Special Features

- Heat resistant
- Oil resistant
- Moisture resistant

### Application

POLYCAB Type SJO, EPR insulated, CPE Jacketed portable cable is extremely flexible, resistant to oil, moisture, and abrasion, makes it suitable for outdoor or indoor application. These types of cables are used to supply low voltage power to small motor of portable tools in maintenance shops, vacuum cleaners, office machines, outdoor extensions and where severe operating conditions exist.

### Voltage Rating

300V

### Operation Temperature

-20°C to 90°C

### Construction

- Annealed plain copper conductor, Class K as per ASTM B-33
- Insulated with insulation cl. 3 Ethylene Propylene rubber (EP) as per UL 62
- Jacketed with jacket cl. 1.4 Chlorinated polyethylene (CPE) to UL 62

### Core Identification

Number of conductors	Core Colour
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green

### Bending Radii

Fixed installation      5 x Overall Diameter  
Occasional                4 x Overall Diameter

### Standard and References

UL 62  
ASTM B-33  
UL 2556  
National Electrical Code

### A-C Spark Test

18 -11 AWG      6 kV  
10 AWG            7.5 kV

### Compliance

Conductor resistance test	UL 62
Insulation resistance	UL 62
Cold bend test	UL 62
Flame test	UL 62
Jacket resistance test	UL 62
Oil resistance test	UL 62

No. of core	Conductor size	No. of Strand	Insulation thickness	Insulation thickness	Nominal Overall Diameter	Nominal Overall Diameter	Approximate weight	Approximate weight
	AWG		inches	mm	inches	mm	Lbs/Mft	Kg/km
2	18	16/30	0.030	0.76	0.274	6.95	45	67
3	18	16/30	0.030	0.76	0.291	7.38	54	81
4	18	16/30	0.030	0.76	0.318	8.08	66	98
2	16	26/30	0.030	0.76	0.299	7.59	56	84
3	16	26/30	0.030	0.76	0.318	8.07	69	102
4	16	26/30	0.030	0.76	0.349	8.85	85	126
2	14	41/30	0.030	0.76	0.329	8.34	72	107
3	14	41/30	0.030	0.76	0.350	8.88	89	133
4	14	41/30	0.030	0.76	0.385	9.76	111	165
2	12	65/30	0.030	0.76	0.396	10.06	107	159
3	12	65/30	0.030	0.76	0.421	10.68	133	198
4	12	65/30	0.030	0.76	0.460	11.68	165	246
2	10	104/30	0.045	1.14	0.535	13.58	184	274
3	10	104/30	0.045	1.14	0.568	14.42	229	341
4	10	104/30	0.045	1.14	0.622	15.78	284	422

**Electrical characteristics**

Allowable ampacity and maximum DC resistance.

No. of core	Conductor size	*Allowable ampacity	Maximum DC resistance at
	AWG	Ampere	20°C
			Ω/km
2	18	10	22.4
3	18	10	22.4
4	18	7	22.4
2	16	13	14.1
3	16	13	14.1
4	16	10	14.1
2	14	18	8.88
3	14	18	8.88
4	14	15	8.88
2	12	25	5.58
3	12	25	5.58
4	12	20	5.58
2	10	30	3.51
3	10	30	3.51
4	10	25	3.51

\*Ampacities are based on Table 400.5(A) of the 2014 National Electrical Code.





### Special Features

- Heat resistant
- Oil resistant
- Moisture resistant

### Application

POLYCAB Type SJT/H03VV-F, PVC insulated, PVC Jacketed flexible cable are suitable to use for home appliances viz: vacuum cleaners, refrigerators, washing machine and small appliances where mechanical stress is low. These cables are suitable to use in wet and damp areas.

### Voltage Rating

300V

### Operation Temperature

-20°C to 75°C – UL 62

-15°C to 70°C – BS EN 50525-2-11

### Construction

- Annealed plain copper conductor, Class K as per ASTM B-33
- Insulated with insulation cl. 3 moisture and oil resistant EPDM as per UL 62
- Jacketed with jacket cl.1.4 Heat, moisture, and oil resistant CPE to UL 62

### Core Identification

Number of conductors	Core Colour
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green

### Bending Radii

Fixed installation 5 x Overall Diameter

Occasional 4 x Overall Diameter

### Standard and References

UL 62

ASTM B-33

UL 2556

NEC 400.5(A)

### A-C Spark Test

18 -11 AWG 6 kV

10 AWG 7.5 kV

### Compliance

Conductor resistance test UL 62

Insulation resistance UL 62

Cold bend test UL 62

Flame test UL 62

Jacket resistance test UL 62

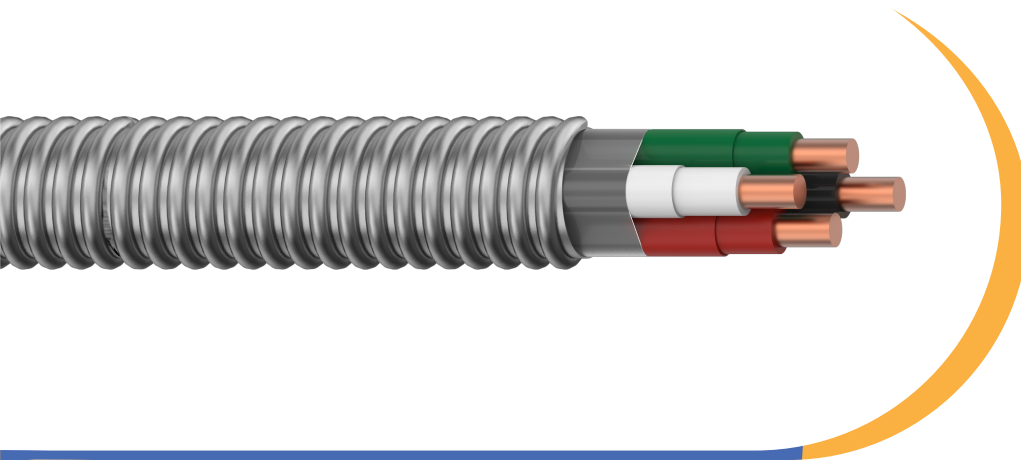
No. of core	Conductor size	No. of Strand	Insulation thickness	Insulation thickness	Nominal Overall Diameter	Nominal Overall Diameter	Approximate weight	Approximate weight
	AWG		inches	mm	inches	mm	Lbs/Mft	Kg/km
2	18	16/30	0.030	0.76	0.274	6.95	43	63
3	18	16/30	0.030	0.76	0.291	7.38	52	77
4	18	16/30	0.030	0.76	0.318	8.08	64	95
2	16	26/30	0.030	0.76	0.299	7.59	54	80
3	16	26/30	0.030	0.76	0.318	8.07	67	99
4	16	26/30	0.030	0.76	0.349	8.85	83	123
2	14	41/30	0.030	0.76	0.329	8.34	69	103
3	14	41/30	0.030	0.76	0.350	8.88	87	130
4	14	41/30	0.030	0.76	0.385	9.76	109	163
2	12	65/30	0.030	0.76	0.396	10.06	105	156
3	12	65/30	0.030	0.76	0.421	10.68	132	196
4	12	65/30	0.030	0.76	0.460	11.68	164	244
2	10	104/30	0.045	1.14	0.535	13.58	183	272
3	10	104/30	0.045	1.14	0.568	14.42	229	340
4	10	104/30	0.045	1.14	0.622	15.78	285	423

### Electrical characteristics

Allowable ampacity and maximum DC resistance.

No. of core	Conductor size	*Allowable ampacity Amp.	Maximum DC resistance at 20°C
	AWG	Ampere	Ω/km
2	18	10	22.4
3	18	10	22.4
4	18	7	22.4
2	16	13	14.1
3	16	13	14.1
4	16	10	14.1
2	14	18	8.88
3	14	18	8.88
4	14	15	8.88
2	12	25	5.58
3	12	25	5.58
4	12	20	5.58
2	10	30	3.51
3	10	30	3.51
4	10	25	3.51

\*Ampacities are based on Table 400.5(A) of the 2014 National Electrical Code.



### Special Features

- Heat resistant
- Sunlight resistant
- Moisture resistant
- Halogen free

### 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

600V

### 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	UL 83
Insulation resistance	UL 83
Cold bend test	UL 83
Tension	UL 1569
Water absorption	UL 1569

# POLYCAB Type MC Copper Conductor Industrial Cable, UL 1569, 600 V AC



Connection Zindagi Ka

Conductor Size & Colours AWG	Grounding conductor size & Colour AWG	Insulation thickness for Conductor 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	0.445	80
14-3 Solid (Black/White/Red)	14 Solid (Green)	0.015	0.472	99
14-4 Solid (Black/White/Red/Blue)	14 Solid (Green)	0.015	0.500	119
12-2 Solid (Black/White)	12 Solid (Green)	0.015	0.481	109
12-2 Solid (Red/White)	12 Solid (Green)	0.015	0.481	109
12-2 Solid (Blue/White)	12 Solid (Green)	0.015	0.481	109
12-3 Solid (Black/White/Red)	12 Solid (Green)	0.015	0.512	137
12-3 Solid (Black/White/Blue)	12 Solid (Green)	0.015	0.512	137
12-3 Solid (Red/White/Blue)	12 Solid (Green)	0.015	0.512	137
12-4 Solid (black/White/Red/Blue)	12 Solid (Green)	0.015	0.545	165
10-2 Solid (Black/White)	10 Solid (Green)	0.020	0.549	160
10-2 Solid (Red/White)	10 Solid (Green)	0.020	0.549	160
10-2 Solid (Blue/white)	10 Solid (Green)	0.020	0.549	160
10-3 Solid (Black/White/Red)	10 Solid (Green)	0.020	0.588	203
10-4 Solid (Black/White/Red/Blue)	10 Solid (Green)	0.020	0.630	247
STRANDED CONDUCTOR COLOURS 120/208 V				
12-2 Stranded (Black/White)	12 Stranded (Green)	0.015	0.491	112
12-3 Stranded (Black/White/Red)	12 Stranded (Green)	0.015	0.524	140
12-4 Stranded (Black/White/Red/Blue)	12 Stranded (Green)	0.015	0.558	169
10-2 Stranded (Black/White)	10 Stranded (Green)	0.020	0.561	163
10-3 Stranded (Black/White/Red)	10 Stranded (Green)	0.020	0.602	207
10-4 Stranded (Black/White/Red/Blue)	10 Stranded (Green)	0.020	0.645	250



Conductor Size & Colours AWG	Grounding conductor size & Colour AWG	Insulation thickness for Conductor inches	Approx. Overall Diameter inches	Approx. weight per 1000 lbs
<b>SOLID CONDUCTOR COLOURS 277/480 V</b>				
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)	10 Solid (Green)	0.020	0.549	160
10-2 Solid (Yellow/Grey)	10 Solid (Green)	0.020	0.549	160
10-2 Solid (Brown/Grey)	10 Solid (Green)	0.020	0.549	160
10-3 Solid (Brown/Orange/Grey)	10 Solid (Green)	0.020	0.588	203
10-3 Solid (Brown/Yellow/Grey)	10 Solid (Green)	0.020	0.588	203
10-4 Solid (Brown/Orange/Yellow/Grey)	10 Solid (Green)	0.020	0.630	247
<b>STRANDED CONDUCTOR COLOURS 277/480 V</b>				
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

Conductor Size & Colours AWG	Grounding conductor size & Colour AWG	Insulation thickness for Conductor inches	Approx. Overall Diameter inches	Approx. weight per 1000 lbs
10-2 Stranded (Brown/Grey)	12 Solid (Green)	0.015	0.481	109
10-3 Stranded (Brown/Orange/Grey)	12 Solid (Green)	0.015	0.481	109
10-4 Stranded (Brown/Orange/Yellow/Grey)	12 Solid (Green)	0.015	0.481	109
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
INTERMEDIATE 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

# POLYCAB Type MC Copper Conductor Industrial Cable, UL 1569, 600 V AC

Conductor Size & Colours AWG	Grounding conductor size & Colour AWG	Insulation thickness inches	Approx. Overall Diameter inches	Approx. weight per 1000 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

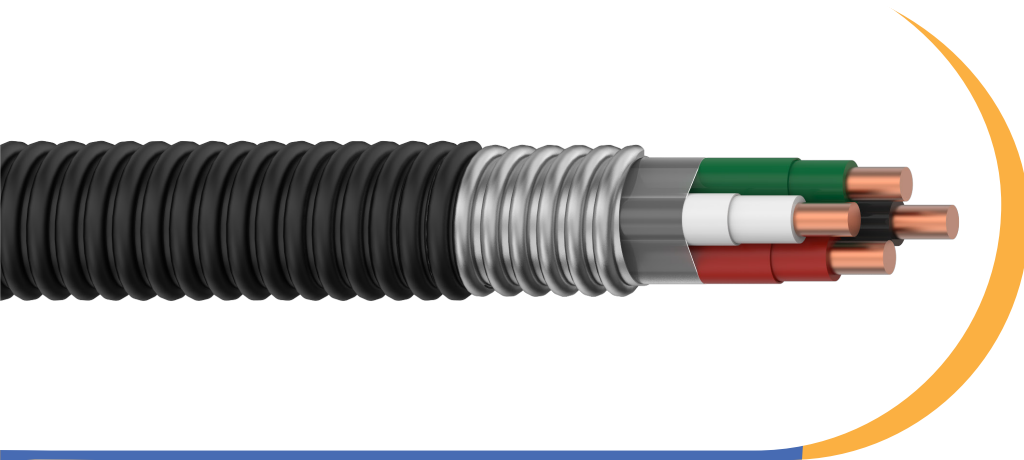
## Electrical characteristics

Allowable ampacity and maximum DC resistance.

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



### Special Features

- Heat resistant
- Sunlight resistant
- Moisture resistant
- Halogen free

### Application

POLYCAB 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.

### Voltage Rating

600V

### 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
- Sunlight resistant overall PVC jacketed

### 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	UL 83
Insulation resistance	UL 83
Cold bend test	UL 83
Tension	UL 1569
Water absorption	UL 1569



# POLYCAB Type MC PVC Jacketed Copper Conductor Industrial Cable, UL 1569, 600 V AC



Connection Zindagi Ka

Conductor Size & Colours AWG	Grounding conductor size & Colour AWG	Insulation thickness for Conductor 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 (Black/White)	10 Stranded (Green)	0.020	0.661	228
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



# POLYCAB Type MC PVC Jacketed Copper Conductor Industrial Cable, UL 1569, 600 V AC



Connection Zindagi Ka

Conductor Size & Colours AWG	Grounding conductor size & Colour AWG	Insulation thickness for Conductor inches	Approx. Overall Diameter inches	Approx. weight per 1000 lbs
<b>SOLID CONDUCTOR COLOURS 277/480 V</b>				
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
<b>STRANDED CONDUCTOR COLOURS 277/480 V</b>				
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
<b>INTERMEDIATE CONDUCTOR COLOURS 120/208 V</b>				
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



# POLYCAB Type MC PVC Jacketed Copper Conductor Industrial Cable, UL 1569, 600 V AC



Connection Zindagi Ka

Conductor Size & Colours AWG	Grounding conductor size & Colour AWG	Insulation thickness inches	Approx. Overall Diameter inches	Approx. weight per 1000 lbs
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

## Electrical characteristics

Allowable ampacity and maximum DC resistance.

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

