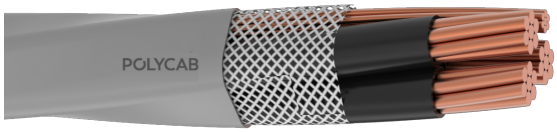
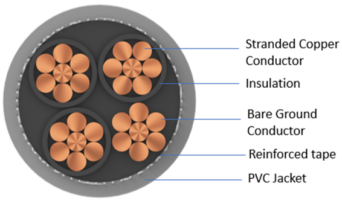
POLYCAB COPPER SE STYLE R CABLE
Industrial Cable, 600 V AC





Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB Copper SE Style R cable is recommended to use in transmitting power from service point to the meter and to the distribution panel board. Further, it is applicable to all type of SE cable requirement. SER may be used in wet or dry locations above the ground at ambient temperature not to exceed 90°C.

CHARACTERISTICS

Voltage Rating
600 V

Operation Temperature
-40°C to 90°C

CONSTRUCTION

- Stranded Class B plain copper conductor as per ASTM B3, ASTM B8
- 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. Colour : Grey

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 plus Bare ground
4	Black, Black with White stripe, and Black with Red stripe plus Bare ground
5	Black, Black with White stripe, Black with Red stripe, and Black with Blue stripe plus Bare ground

Bending Radius
12 x Overall Diameter

A-C Spark Test
As per UL 44

OUTSTANDING FEATURES

- Heat resistant
- Sunlight resistant
- Moisture resistant

STANDARD FOLLOWS

UL 44
UL 83
ASTM B8, ASTM B3
UL 854
National Electrical Code/NFPA 70,2011 Edition

COMPLIANCE

Conductor resistance test	UL 1581
Insulation resistance	UL 44
Cold bend test	UL 44
Flame test	UL 1581
Vertical tray flame test	UL 854
RoHS	
REACH	

OUR ACCREDITATIONS

APPROVAL

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Dimensional Characteristics:

No. of core	Conductor size	Insulation thickness	Nominal overall diameter	Approximate weight per 1000
	AWG or kcmil	mils	mils	lbs
SER Copper Two conductor with Bare ground (Formerly referred as “Three conductor”)				
3	8-8-8	45	603	255
3	6-6-6	45	678	361
3	4-4-4	45	814	560
3	3-3-3	45	871	675
3	2-2-2	45	936	819
3	1-1-1	55	1056	1020
3	1/0-1/0-1/0	55	1137	1242
3	2/0-2/0-2/0	55	1229	1523
3	3/0-3/0-3/0	55	1332	1872
3	4/0-4/0-4/0	55	1447	2307
SER Copper Three conductor with Bare ground (Formerly referred as “Four conductor”)				
4	8-8-8-8	45	654	325
4	6-6-6-6	45	738	464
4	4-4-4-6	45	845	632
4	3-3-3-5	45	908	769
4	2-2-2-4	45	1020	984
4	1-1-1-3	55	1153	1229
4	1/0-1/0-1/0-2	55	1243	1499
4	2/0-2/0-2/0-1	55	1345	1839
4	3/0-3/0-3/0-1/0	55	1460	2261
4	4/0-4/0-4/0-2/0	55	1587	2788

*Above values are approximate and subject to standard manufacturing tolerance

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Electrical Characteristics:

Conductor Size	*Allowable ampacity			Maximum DC resistance at 20°C
AWG	Amp.			
	60°C	75°C	90°C	Ω/km
8	40	50	55	2.144
6	55	65	75	1.348
4	70	85	95	0.8481
3	85	100	115	0.6727
2	95	115	130	0.5335
1	110	130	145	0.423
1/0	125	150	170	0.3354
2/0	145	175	195	0.266
3/0	165	200	225	0.211
4/0	195	230	260	0.1673

*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