

POLYCAB SILICON RUBBER INSULATED CABLE CONFORMING TO BS EN 50525-2-41.



Polycab offers a comprehensive range of Silicon Rubber cable conforming to BS EN 50525-2-41 for various application.

The highly flexible and robust Silicon Rubber cable makes its use in portable electrical equipment and devices where high thermal resistance is required. These Silicon rubber cables are also suitable for wide range of application in furnace, appliances or equipment including heavy industrial equipment to power supply.

Conductor: High conductivity solid or bunched tinned copper conductor produced in-house from state-of-the art Machine.

Insulation: Cross linked Silicone rubber (SiR) compound.

Sheath: The cores shall be covered by Silicon rubber (SiR) or braided by heat resistant glass fibre.

The construction based on the application and requirement of the user against BS EN 50525-2-41.



[POLYCAB H03S-K BS EN 50525-2-41 SC - Rubber Cable, 300/300 V AC](#)



[POLYCAB H05S-U/H05S-K BS EN 50525-2-41 SC - Rubber Cable, 300/500 V AC](#)



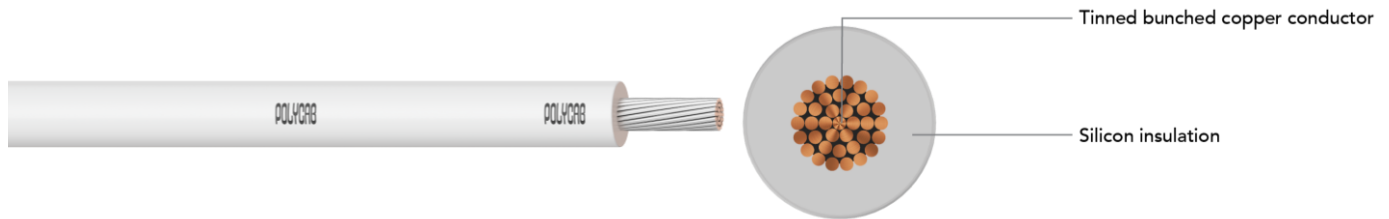
[POLYCAB H05SS-K BS EN 50525-2-41 SC - Rubber Cable, 300/500 V AC](#)



[POLYCAB H05SJ-U/H05SJ-K BS EN 50525-2-41 SC - Rubber Cable, 300/500 V AC](#)

POLYCAB H03S-K BS EN 50525-2-41 SC

Rubber Cable, 300/300 V AC



Application

POLYCAB H03S-K SC Silicon Rubber insulated Power and Control cable conforming to BS EN 50525-2-41 is suitable to use in fixed installations where high temperature is a prime requirement.

Voltage Rating

300/300 V

Operation Temperature

Fixed: -35°C to 180° C

Construction

- Annealed bunched tinned copper conductor as per IEC 60228, class 5
- Insulated with cross-linked elastomeric compound type EI 2 (silicon rubber) to EN 50363-1

Core Identification

Black/Blue/Brown/Grey/Orange/Pink/Red/Turquoise/
Violet/White/Green/Yellow

Bending Radius

Fixed installation – 4 x Overall Dia.

Standard and References

IEC 60228
BS EN 50363-1
BS EN 50525-2-41
IEC 60332-1-2

Test Voltage

2000V AC at (20±5) °C

Compliance

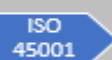
Conductor resistance test - IEC 60228
Insulation resistance - EN 50525-2-41
Flammability test - EN 60332-1-2

Approval



Nominal cross sectional area mm ²	Insulation thickness mm	Overall diameter mm	Weight (Approx.) kg/km
0.5	0.6	2.11	8
0.75	0.6	2.32	11
1	0.6	2.49	14
1.5	0.7	2.96	20
2.5	0.8	3.62	31

OUR ACCREDITATION



POLYCAB H03S-K BS EN 50525-2-41 SC

Rubber Cable, 300/300 V AC

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm	Current rating in Air Amp.					Maximum DC conductor resistance 20°C Ω/km
	30°C	60°C	90°C	120°C	150°C	
0.5	24	21	17	14	9	40.1
0.75	30	26	22	17	11	26.7
1	36	31	26	20	13	20
1.5	45	39	33	26	17	13.7
2.5	61	53	45	55	23	8.21

Conductor operating temperature 180°C.

De-rating Factor

De-rating factor for 180°C insulated cable

Air Temperature	150°C	155°C	160°C	170°C	180°C
De-Rating Factor	1	0.91	0.82	0.58	0.41

OUR ACCREDITATION



POLYCAB H05SJ-U/H05SJ-K BS EN 50525-2-41 SC

Rubber Cable, 300/500 V AC



Application

POLYCAB H05SJ-U / H05SJ-K SC Silicon Rubber insulated and glass fibre braided Power and Control cable, confirming to BS EN 50525-2-41 are suitable to use in fixed installations within high temperature zone.

Voltage Rating

300/500 V

Operation Temperature

Fixed: -40°C to 180° C

Standard and References

IEC 60228
BS EN 50363-1
BS EN 50525-2-41
IEC 60332-1-2

Construction

- Annealed solid or bunched tinned copper conductor as per IEC 60228, class 1 or class 5
- Insulated with cross-linked elastomeric compound type EI 2 (Silicon Rubber) to EN 50363-1
- Braided by glass fibre complying with EN 50525-1

Test Voltage

2000V AC at (20±5) °C

Compliance

Conductor resistance test - IEC 60228
Insulation resistance - EN 50525-2-41
Flammability test - EN 60332-1-2

Core Identification

Black/Blue/Brown/Grey/Orange/Pink/Red/Turquoise/
Violet/White/Green/Yellow

Approval



Bending Radius

Fixed installation – 8 x Overall Dia.

Dimension and maximum DC conductor resistance of H05SJ-U

Nominal cross sectional area mm ²	Insulation thickness mm	Minimum Overall diameter mm	Maximum Overall diameter mm	Weight (Approx.) kg/km
1	0.6	2.8	3.5	17
1.5	0.7	3.2	4	23
2.5	0.8	3.8	4.7	35
4	0.8	4.2	5.3	52
6	0.8	4.7	5.9	72
10	1	6	7.4	117

OUR ACCREDITATION



POLYCAB H05SJ-U/H05SJ-K BS EN 50525-2-41 SC

Rubber Cable, 300/500 V AC

Dimension and maximum DC conductor resistance of H05SJ-K

Nominal cross sectional area mm ²	Insulation thickness mm	Minimum Overall diameter mm	Maximum Overall diameter mm	Weight (Approx.) kg/km
0.5	0.6	2.6	3.3	11
0.75	0.6	2.8	3.5	14
1	0.6	2.9	3.7	17
1.5	0.7	3.4	4.2	24
2.5	0.8	4	5	36
4	0.8	4.5	5.6	52
6	0.8	5	6.2	73
10	1	6.2	7.8	120
16	1	7.3	9.1	177
25	1.2	9	11.3	271
35	1.2	10.3	12.8	370
50	1.4	11.7	14.6	526
70	1.4	13.8	17.3	720
95	1.6	15.6	19.6	973

Electrical characteristics

H05SJ-U current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm ²	Current rating in Air Amp.					Maximum DC conductor resistance 20°C Ω/km
	30°C	60°C	90°C	120°C	150°C	
1	36	31	26	20	13	18.2
1.5	45	39	33	26	17	12.2
2.5	61	53	45	55	23	7.56
4	81	71	60	47	31	4.7
6	105	92	77	60	39	3.11
10	146	128	107	84	55	1.84

Conductor operating temperature 180°C

OUR ACCREDITATION



POLYCAB H05SJ-U/H05SJ-K BS EN 50525-2-41 SC

Rubber Cable, 300/500 V AC

H05SJ-K current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm ²	Current rating in air Amp.						Maximum DC conductor resistance 20°C Ω/km
	30°C	60°C	90°C	120°C	150°C	170°C	
0.5	23	20	17	13	9	5	40.1
0.75	30	26	22	17	11	6	26.7
1	35	31	26	20	13	7	20
1.5	44	38	32	25	17	8	13.7
2.5	61	53	45	35	23	12	8.21
4	82	71	60	47	31	16	5.09
6	104	91	77	60	39	20	3.39
10	148	129	108	85	56	28	1.95
16	197	173	145	114	75	38	1.24
25	263	230	193	151	99	51	0.795
35	327	286	240	188	124	63	0.565
50	413	362	304	238	157	80	0.393
70	531	465	391	306	201	103	0.277
95	623	545	458	359	236	121	0.21

Conductor maximum operating temperature 180°C

De-rating factor

De-rating factor for 180°C insulated cable

Air Temperature	150°C	155°C	160°C	170°C	180°C
De-Rating Factor	1	0.91	0.82	0.58	0.41

OUR ACCREDITATION



POLYCAB H05SS-K BS EN 50525-2-41 SC

Rubber Cable, 300/500 V AC



Application

POLYCAB H05SS-K SC Silicon Rubber insulated and sheathed Power and Control cable, confirming to BS EN 50525-2-41 is suitable to use in fixed installations within high temperature zone.

Voltage Rating

300/500 V

Operation Temperature

Fixed: -35°C to 180° C

Construction

- Annealed bunched tinned copper conductor as per IEC 60228, class 5
- Insulated with cross linked elastomeric compound type EI 2 (silicon rubber) to EN 50363-1
- Sheathed with Silicon Rubber compound type EM 9 to EN 50363-2-1

Core Identification

Black/Blue/Brown/Grey/Orange/Pink/Red/Turquoise/Violet/White/Green/Yellow

Bending Radius

Fixed installation – 4 x Overall Dia.

Standard and References

IEC 60228
BS EN 50363-1
BS EN 50363-2-1
BS EN 50525-2-41
IEC 60332-1-2

Test Voltage

2000V AC at (20±5) °C

Compliance

Conductor resistance test - IEC 60228
Insulation resistance - EN 50525-2-41
Flammability test - EN 60332-1-2

Approval



Nominal cross sectional area mm ²	Insulation thickness mm	Overall diameter mm	Weight (Approx.) kg/km
0.75	0.6	3.92	26.7
1	0.6	4.29	20
1.5	0.8	5.16	13.7
2.5	0.9	6.02	8.21

OUR ACCREDITATION



POLYCAB H05SS-K BS EN 50525-2-41 SC

Rubber Cable, 300/500 V AC

Electrical characteristics

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm ²	Current rating in air Amp.						Maximum DC conductor resistance 20°C Ω/km
	30°C	60°C	90°C	120°C	150°C	170°C	
0.75	30	26	22	17	11	6	26
1	35	31	26	20	13	7	19.5
1.5	44	38	52	25	17	8	13.3
2.5	61	53	45	35	23	12	7.98

Conductor operating temperature 180°C

De-rating factor

De-rating factor for 180°C insulated cable

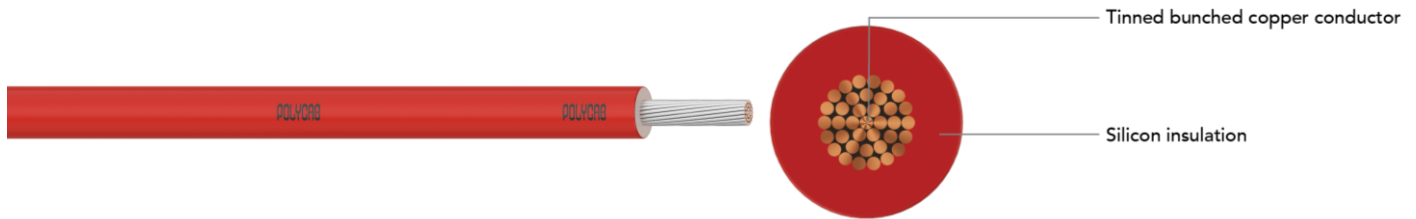
Air Temperature	150°C	155°C	160°C	170°C	180°C
De-Rating Factor	1	0.91	0.82	0.58	0.41

OUR ACREDITATION



POLYCAB H05S-U/H05S-K BS EN 50525-2-41 SC

Rubber Cable, 300/500 V AC



Application

POLYCAB H05S-U / H05S-K SC Silicon Rubber insulated Power and Control cable, BS EN 50525-2-41 is suitable to use in fixed installations within high temperature zone.

Voltage Rating

300/500 V

Operation Temperature

Fixed: -40°C to 180° C

Construction

- Annealed solid or bunched tinned copper conductor as per IEC 60228, class 1 or class 5
- Insulated with cross linked elastomeric compound type EI 2 (silicon rubber) to EN 50363-1

Core Identification

Black/Blue/Brown/Grey/Orange/Pink/Red/Turquoise/Violet/White/Green/Yellow

Bending Radius

Fixed installation – 4 x Overall Dia.

Standard and References

IEC 60228
BS EN 50363-1
BS EN 50525-2-41
IEC 60332-1-2

Test Voltage

2000V AC at (20±5) °C

Compliance

Conductor resistance test	- IEC 60228
Insulation resistance	- EN 50525-2-41
Flammability test	- EN 60332-1-2

Approval



H05S-U

Nominal cross sectional area mm ²	Insulation thickness mm	Overall diameter mm	Weight (Approx.) kg/km
0.5	0.8	2.4	10
0.75	0.8	2.6	13
1	0.8	2.8	17
1.5	0.9	3.2	22
2.5	1	3.8	35

OUR ACREDITATION



POLYCAB H05S-U/H05S-K BS EN 50525-2-41 SC

Rubber Cable, 300/500 V AC

H05S-K

Nominal cross sectional area mm ²	Insulation thickness mm	Overall diameter mm	Weight (Approx.) kg/km
0.5	0.8	2.51	10
0.75	0.8	2.72	13
1	0.8	2.89	16
1.5	0.9	3.36	22
2.5	1	4.02	35

Electrical characteristics

H05S-U current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm ²	Current rating in Air Amp.					Maximum DC conductor resistance 20°C Ω/km
	30°C	60°C	90°C	120°C	150°C	
0.5	24	21	17	14	9	36.7
0.75	30	26	22	17	11	24.8
1	36	31	26	20	13	18.2
1.5	45	39	33	26	17	12.2
2.5	61	53	45	55	23	7.56

H05S-K current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm ²	Current rating in Air Amp.						Maximum DC conductor resistance at 20°C Ω/km
	30°C	60°C	90°C	120°C	150°C	170°C	
0.5	23	20	17	13	9	5	40.1
0.75	30	26	22	17	11	6	26.7
1	35	31	26	20	13	7	20
1.5	44	38	52	25	17	8	13.7
2.5	61	53	45	35	23	12	8.21

Conductor operating temperature 180°C

De-rating factor

De-rating factor for 180°C insulated cable

Air Temperature	150°C	155°C	160°C	170°C	180°C
De-Rating Factor	1	0.91	0.82	0.58	0.41

OUR ACCREDITATION

