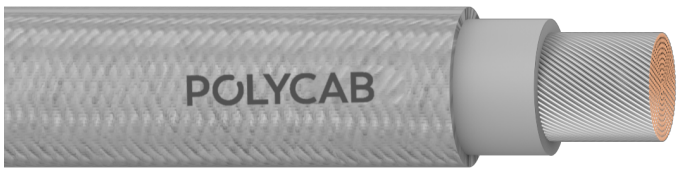
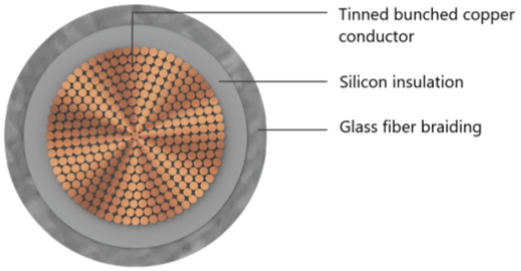
POLYCAB H05SJ-U/H05SJ-K BS EN 50525-2-41 SC
Rubber Cable, 300/500 V AC





Images not to scale. Follow table for dimensions

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.

OUTSTANDING FEATURES

- Flexible
- Flame Retardant
- Good Insulation Resistance

CHARACTERISTICS

Voltage Rating
300/500 V

Operation Temperature
Fixed: -40°C to 180° C

STANDARD FOLLOWS

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

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

Bending Radius
Fixed installation – 8 x Overall Dia.

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

OUR ACCREDITATIONS

APPROVAL

POLYCAB H05SJ-U/H05SJ-K BS EN 50525-2-41 SC
Rubber Cable, 300/500 V AC

POLYCAB
IDEAS. CONNECTED.

Weight & Dimension Data

Dimension and maximum DC conductor resistance of H05SJ-U

Nominal cross sectional area	Insulation thickness	Minimum Overall diameter	Maximum Overall diameter	Weight (Approx.)
mm²	mm	mm	mm	kg/km
1	0.6	2.8	3.5	18
1.5	0.7	3.2	4	24
2.5	0.8	3.8	4.7	37
4	0.8	4.2	5.3	54
6	0.8	4.7	5.9	74
10	1	6	7.4	119

Dimension and maximum DC conductor resistance of H05SJ-K

Nominal cross sectional area	Insulation thickness	Minimum Overall diameter	Maximum Overall diameter	Weight (Approx.)
mm²	mm	mm	mm	kg/km
0.5	0.6	2.6	3.3	13
0.75	0.6	2.8	3.5	15
1	0.6	2.9	3.7	18
1.5	0.7	3.4	4.2	25
2.5	0.8	4	5	38
4	0.8	4.5	5.6	54
6	0.8	5	6.2	75
10	1	6.2	7.8	122
16	1	7.3	9.1	181
25	1.2	9	11.3	275
35	1.2	10.3	12.8	374
50	1.4	11.7	14.6	531
70	1.4	13.8	17.3	726
95	1.6	15.6	19.6	981

POLYCAB H05SJ-U/H05SJ-K BS EN 50525-2-41 SC
Rubber Cable, 300/500 V AC

POLYCAB
IDEAS. CONNECTED.

Electrical characteristics

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

Nominal cross sectional area	Current rating in Air Amp.					Maximum DC conductor resistance 20°C
mm²	30°C	60°C	90°C	120°C	150°C	Ω/km
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

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

Nominal cross sectional area mm²	Current rating in air Amp.						Maximum DC conductor resistance 20°C
	30°C	60°C	90°C	120°C	150°C	170°C	Ω/km
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
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	58	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

POLYCAB H05SJ-U/H05SJ-K BS EN 50525-2-41 SC
Rubber Cable, 300/500 V AC

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