



Images not to scale. Follow table for dimensions

## APPLICATION

POLY CAB 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.

## CHARACTERISTICS

### 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 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.

### Test Voltage

2000V AC at (20±5) °C

## OUTSTANDING FEATURES

- Flexible
- Flame Retardant
- Good Insulation Resistance

## STANDARD FOLLOWS

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

## COMPLIANCE

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

## OUR ACCREDITATIONS



## APPROVAL



**Weight & Dimension Data**

H05S-U

Nominal cross sectional area mm <sup>2</sup>	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

H05S-K

Nominal cross sectional area mm <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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