

## 10. Pressure sensor cables

### 10.1 SPKC Series cables

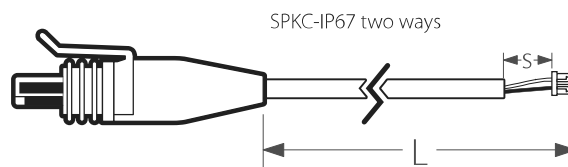
The SPKC series pressure sensor cables are flexible and feature a PVC insulating sheath with a wide temperature range (from -20°C up to 105°C). These are ideal for use as static internal wiring in electronic equipment. The cables are available in various lengths, in versions with IP55 - IP67 - IP69K Packard connectors. They are used to connect the entire range of Carel SPKT\* series pressure sensors (ratiometric and 4-20 mA). A series is available with JST XHP 2- and 3-pin connector for quick connection (where a compatible connector is available).

#### Characteristics for all cables

Nominal voltage (V)	300Vac								
Wire size (mm <sup>2</sup> )	3 x 0.324mm <sup>2</sup> - AGW22/19								
Operating temperature	-20°C to 105°C								
Wire resistance	≤ 59.4 Ω/km								
Cable insulation	PVC Class 43. Hardness (91 ± 2) Sh-A								
Sheath colour	Grey, RAL 7035								
Wire colours and assignment	<table border="0"> <tr> <td><b>Ratiometric sensors:</b></td> <td><b>4-20 mA sensors:</b></td> </tr> <tr> <td>White = V out</td> <td>White = I out</td> </tr> <tr> <td>Black = Power supply</td> <td>Black = Power supply</td> </tr> <tr> <td>Green = GND</td> <td>Green = Not used</td> </tr> </table>	<b>Ratiometric sensors:</b>	<b>4-20 mA sensors:</b>	White = V out	White = I out	Black = Power supply	Black = Power supply	Green = GND	Green = Not used
<b>Ratiometric sensors:</b>	<b>4-20 mA sensors:</b>								
White = V out	White = I out								
Black = Power supply	Black = Power supply								
Green = GND	Green = Not used								
Average sheath thickness	≥ 0.76 mm - ≥ 30 mils								
Radius of curvature	≥ 12 x D								
Cable outside diameter	5.1 mm								
Flame resistance	VW1 - FT-1								
Compliant with standards	UL758 & UL1581								

#### Delphi-Packard connector specifications

Pins	3 x 0.35-0.50mm <sup>2</sup>
Material	Nylon
Model	Female with seal gasket
Maximum current	14 A
Operating temperature	-40°C to 105°C
Colour	Black



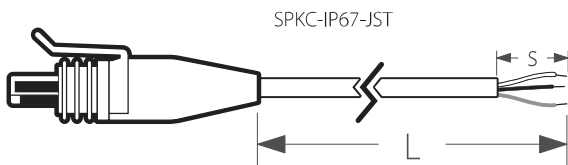
Packard IP protection	IP55
Terminations	Tin-plated terminals

Packard IP protection	IP67 (EN60529)
Terminations	2-pin JST

P/N	Length (ref. L)		s (mm)	Min. orderable quantity
	m	inch		
SPKC002300	2	78.7	50	1 pc
SPKC005300	5	196.8	50	1 pc
SPKC00A300	12	472.4	50	1 pc

Moulding material	Thermoplastic polyamide
Colour	Black

Housing P/N	XHP-2
Pins	2 pins
Pin-to-pin pitch	2.5 mm
Electrical contact P/N	SXH-001T-P0.6
Operating temperature	-25°C to 85°C



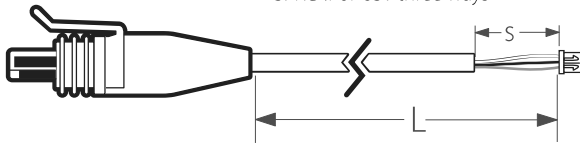
P/N	Length (ref. L)		s (mm)	Min. orderable quantity
	m	inch		
SPKC002410	2	78.7	50	1 pc
SPKC005410	5	196.8	50	1 pc

Packard IP protection	IP67 (EN60529)
Terminations	Tin-plated terminals

Moulding material	Thermoplastic polyamide
Colour	Black

P/N	Length (ref. L)		s (mm)	Min. orderable quantity
	m	inch		
SPKC00D311	0.65	25.5	70	50 pc
SPKC00E311	0.83	32.6	70	50 pc
SPKC00B311	1	39.3	150	50 pc
SPKC00C311	1.3	51.1	150	50 pc
SPKC002310	2	78.7	50	1 pc
SPKC002311	2	78.7	50	100 pc
SPKC00M311	3	118	50	10 pc
SPKC00F310	4	157.4	50	1 pc
SPKC005310	5	196.8	50	1 pc
SPKC005311	5	196.8	50	50 pc
SPKC00G310	6.6	259.8	50	1 pc
SPKC00A310	12	472.4	50	1 pc

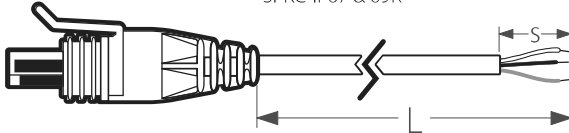
SPKC-IP67-JST three ways



Packard IP protection	IP67 (EN60529)
Terminations	3-pin JST
Moulding material	Thermoplastic polyamide
Colour	Black
Housing P/N	XHP-3
Pins	3 pins
Pin-to-pin pitch	2.5 mm
Electrical contact P/N	SXH-001T-P0.6
Operating temperature	-25°C to 85°C

P/N	Length (ref. L)		s (mm)	Min. orderable quantity
	m	inch		
SPKC002510	2	78.7	50	1 pc
SPKC005510	5	196.8	50	1 pc

SPKC-IP67 & 69K



Packard IP protection	IP67 (EN60529) - IP69K (ISO20653)
Terminations	Tin-plated terminals
Moulding material	TPU
Colour	Red, type 2/R325

P/N	Length (ref. L)		s (mm)	Min. orderable quantity
	m	inch		
SPKC002321	2	78.7	50	10 pc
SPKC005321	5	196.8	50	10 pc
SPKC00A321	12	472.4	50	10 pc
SPKC00Q321	18	708.7	50	10 pc