

Type SP

Liquid resistant flexible metallic conduit



Liquid resistant, general purpose covered steel conduit

Certifications / Standards:

(Refer to tables for certifications details)



Features & benefits:

- Liquid resistant covered steel
- Very high UV resistance
- High flexibility
- Medium fatigue life
- Self-extinguishing PVC

Applications:

- Light industrial
- CCTV
- Lighting
- Machine Tools
- Automation

Temperature range:

- Static applications: -25°C to +70°C
- Moving applications: -5°C to +90°C

UV Resistance:

- Very high

Material / Materials / Finishes:

- Galvanised Steel
- Self extinguishing PVC

Ingress protection:

- IP65 (with SP Type M & C90)
- IP54 (with SP Type A, B, C, E & F)

Conforms to:

- CE marked to Low Voltage Directive 2014/35/EU
- RoHS Compliant to 2011/65/EU
- Conforms with end of life vehicle directive (ELV) EU200/53/EC
- BS Kitemark KM-35161

Fire performance:

Test standard	Performance rating
ISO 4589-2	28%
IEC 60695	850°C
IEC 61386-1	Pass

Degree of mechanical protection:

- High flexibility & medium fatigue life

Chemical resistance:

- Medium chemical resistance levels

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Type SP Conduit – Part numbers and dimensions

Part No.	Conduit size		Dimensions (mm)			Reel Length (m)
	(NC)	Outside Dia. (A)	Inside Dia. (B)	Bend radi (C)		
SP10/BL/50M	10	10.2	7.0	25		50
SP12/BL/50M	12	13.8	10.3	30		50
SP16/BL/25M	16	17.2	13.0	35		25
SP20/BL/25M	20	21.5	16.9	45		25
SP25/BL/25M	25	26.0	21.4	55		25
SP32/BL/25M	32	33.5	28.1	60		25
SP40/BL/25M	40	44.5	37.7	80		25
SP50/BL/25M	50	54.9	48.2	90		25
SP63/BL/10M	63	64.3	57.5	115		10
SP75/BL/10M	75	79.0	70.0	150		10

Part number example: To order quote part number & reel length, e.g. SP10/BL/50m.

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Mechanical properties

Test type	Standard	Requirement	Status
Crush strength	IEC 61386-1	<25% crush >90% recovery	>1250N
Crust strength	AFX norm C1989	10% Crush, instantaneous value	2200N
Impact strength @ 23°C	IEC61386-1	No cracks <20% deformation min value	>20J
Impact strength @ -25°C	IEC61386-1	No cracks <20% deformation min value	>6J
Tensile strength	IEC61386-1	Fitting pull off (Type M fitting)	>1000N
Tensile strength	AFX norm T1987	Ultimate pull out strength (Type M fitting)	1450N
Dynamic bend radius @ -15 °C	IEC61386-23	5000 cycles minimum	4xOD

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Thermal properties

Test type	Standard	Requirement	Value
Minimum temperature	–	Permanent use static	-15°C
Minimum temperature	IEC 61386-23	Dynamic Use (5000 cycles)	-5°C
Maximum temperature	–	Permanent use	90°C
Maximum temperature	IEC 61386-23	Dynamic Use (5000 cycles)	70°C

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Flammability

Test type	Standard	Requirement	Result	Value
Oxygen index	ISO 4589-2	% Oxygen to support combustion	28	%
Glow wire	IEC 60695	No ignition to extinguish within 2s	850	°C
Flammability	IEC 61386-1	1KW burner at 45°	Pass	Pass/Fail

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Pre-test conditions

Duration	Standard	Temperature	Relative humidity
168 (hrs)	BS EN IEC 61386-1	23°C	50%

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 ABB UK Ltd
 CMG House, Station Road,
 Coleshill, Birmingham
 B46 1 HT
 Tel: +44 (0) 1675 468 200

For Sales Support contact:
 gb-cmg.salesupport@abb.com
For Technical Support contact:
 cmg.conduitsystems@abb.com
For Samples Support contact:
 gb-sample-requests@abb.com

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