

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

In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

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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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