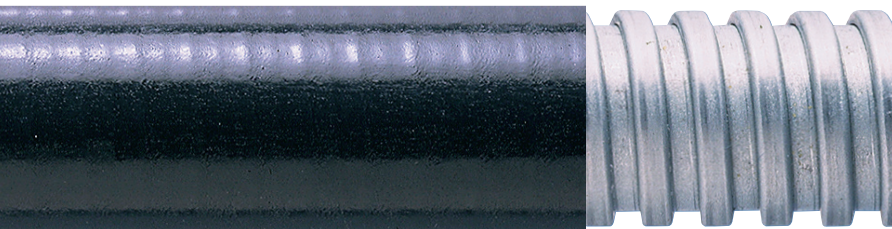


TECHNICAL DATA SHEET

# Type SPL-EF

## Liquid tight, enhanced low fire hazard conduit



Liquid tight, enhanced low fire hazard performance covered galvanized steel flexible conduit.

**Certifications / Approvals:**



**Fire performance**



**Applications:**

- Suitable for a wider temperature operating range



**Material / Materials / Finishes:**

- Galvanized steel core - string packing
- Low fire hazard jacket
- Colour - black only

**Degree of mechanical protection:**

- High flexibility and medium fatigue life

**Temperature range:**

°C	-65	-45	-25	-5	0	5	60	90	105	120	150	250
°F	-85	-49	-13	23	32	41	140	194	221	248	302	482



**Ingress protection:**

Fitting	IP66	IP67	IP68	IP69
A	-	•	-	-
B	-	•	-	-
M	•	•	•	•

**Conforms to:**

- BS EN 61386
- LVD (Low Voltage Directive) 2014/35/EU
- EN - 45545-2 HL3 R22 & R23

**Fire performance:**

- Halogen free
- Low toxicity
- Self extinguishing
- ELFH - Inherent low fire hazard
- NFPA130 / ASTM E 162, ASTM E 662 and Bombardier SMP 800-C

Test standard*	Performance rating
EN-45545-2	HL3 R22 & R23
UL94	V0

\*For detailed test reports contact [cmg.conduitsystems@abb.com](mailto:cmg.conduitsystems@abb.com)

**Chemical resistance:**

- High - Please refer to TDS000081

**UV Resistance:**

- Very high - Please refer to TDS000081

**Compatible with:**

- Adaptasteel Type SPL - Type A ,B, E, M, C90 and C45 fittings

## Type SPL-EF Conduit – Part numbers and dimensions

Part No.	Conduit size			Dimensions (mm)			Standard lengths (m)	Coil Colour
	IEC/EN (mm)	US / CAN in	US / CAN mm	Outside Dia. (A)	Inside Dia. (B)	Bend radi (C)		
SPL-EF12	12	1/2"	12	14.2	10.0	45	10, 25, 50	●
SPL-EF16	16	5/8"	16	17.8	12.5	50	10, 25, 50	●
SPL-EF20	20	2/3"	20	21.1	15.9	80	10, 25, 50	●
SPL-EF25	25	1"	25	26.4	21.0	110	10, 25, 50	●
SPL-EF32	32	1 1/3"	32	33.1	26.7	145	10, 25, 50	●
SPL-EF40	40	1 1/2"	40	41.8	35.4	180	10, 25	●
SPL-EF50	50	2"	50	47.9	40.4	240	10, 25	●

Part number example: To order quote part number, colour & conduit coil length, e.g. SPL-EF12/BL/25m.

### IEC/EN 61386 Classification

Type	Fitting	Compression	Impact	Min. Temp	Max. Temp	Bending	Electrical
SPL-EF	SPL (M)	4	4	2	3	4	2
Classification level		>1250N	>6J	-40°C	105°C	Flexible	Insulator

Type	Fitting	IP Solids	IP Water	Corrosion	Tensile propagating	Non-flame	Suspended load
SPL-EF	SPL (M)	6	7	-	4	1	5
Classification level		IP(6)X	IPX(7)	-	<1000N	n/a	>850N

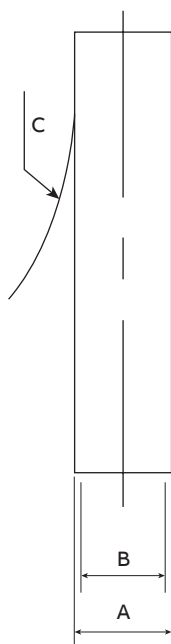
Tensile tests to IEC 61386 gives the minimum classification value only. Actual values will depend on the type and size of the fittings used and will always be greater than the minimum. Impact strength is the minimum classification value at the minimum temperature. Actual values will depend on size and temperature. Specific values available on request.

### Mechanical properties

Standard	Test type	Requirement	Status
IEC/EN 61386-1	Maximum compression @ 23°C	10% crush	1800N
IEC/EN 61386-1	Maximum tensile strength @ 23°C	-	1600N
IEC/EN 61386-1	Maximum impact strength @ 23°C	No cracks <20% deformation	>20J

### Thermal properties

Standard	Test type	Requirement	Min. temperature	Long term max. temperature
IEC/EN 61386-23	Static	Retention of 50% of mechanical properties	-40°C	+105°C
IEC/EN 61386-23	Dynamic	Dynamic 5000 cycles	-30°C	+105°C



### Part number information

SPL-EF12 BL 25M

Conduit type →  
 Conduit colour →  
 Coil length →

Type SPL-EF conduit - for a 12mm Metric thread, in black and a 25m coil length.

ABB Ltd.  
 CMG House, Station Road  
 Coleshill, B46 1 HT, UK  
 Contact us  
 cmg.conduitsystems@abb.com

[www.adaptaflex.com](http://www.adaptaflex.com)

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