

Flexible conduits are used for connecting misaligned equipments or equipments subjected to vibrations, such as electrical motors. They are suitable for installation of lighting fixtures and in alternative to rigid conduits when they are difficult to install. SP series flexible conduits have a good flexibility and a very good damping effect against vibrations.



<b>Classification:</b> 2014/34/UE	Group II	Category 2GD
<b>Installation:</b> EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)
<b>Marking:</b>	CE 0722 Ex II 2 GD Ex db IIB Gb Ex tb IIIC Db IP66/67	
	CE 0722 Ex II 2 GD Ex db IIC Gb Ex tb IIIC Db IP66/67	
<b>Certification:</b>	ATEX	CESI 00 ATEX 048U
	IECEX	IECEX CES 14.0011U
	TR CU	AVAILABLE
	CCoE	AVAILABLE

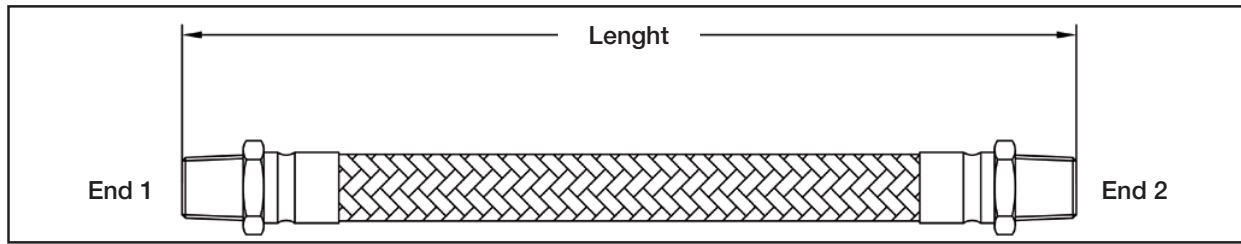
All IEC Ex, TR CU and CCoE certification data can be downloaded at [www.cortemgroup.com](http://www.cortemgroup.com)

<b>Standards:</b>	CENELEC EN 60079-0: 2012+A11:2013, EN 60079-1: 2014, EN 60079-31: 2014, EN ISO 10807: 1996 and EUROPEAN DIRECTIVE 2014/34/UE IEC60079-0: 2011, IEC60079-1: 2007-04, IEC60079-31: 2008 Directive RoHS 2002/95/CE
<b>Degree of protection:</b>	IP66/67

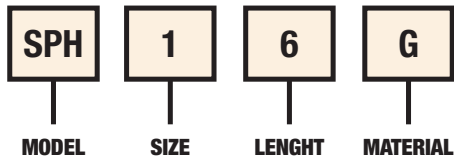
Certificates are available on [www.cortemgroup.com](http://www.cortemgroup.com)

Ambient temperature

	Flexible conduit type	Method of protection	Construction material		Size	Ambient temperature
			Fixed fitting	Revolving fitting		
Fixed fitting	SPH - SPG - SPZ	Ex d IIC	Stainless steel	/	1/2" ÷ 1"	-20°C +150°C
			Galvanized steel	/	1 ¼" ÷ 4"	
Revolving fitting	SPN - SPI - SPY - SPD SPP - SPE - SPT	Ex d IIB	Stainless steel	Galvanized steel	1/2" ÷ 1"	-20°C +60°C
			Galvanized steel	Galvanized steel	1 ¼" ÷ 4"	
	SPRN - SPRI - SPRY - SPRD SPRP - SPRE - SPRT	Ex d IIC	Stainless steel	Galvanized steel	1/2" ÷ 1"	-20°C +60°C
			Galvanized steel	Galvanized steel	1 ¼" ÷ 4"	
	SPRN - SPRI - SPRY - SPRD SPRP - SPRE - SPRT	Ex d IIC	Stainless steel	Stainless steel	1/2" ÷ 4"	-60°C +60°C
			Stainless steel	Stainless steel	1/2" ÷ 4"	



End 2 \ End 1		Method of protection IIC		Method of protection IIB		Method of protection IIC		Method of protection IIB (T <sub>a</sub> + 150°C)	
		Fixed male	Fixed female	Revolving male	Revolving female	Revolving male	Revolving female	Revolving male	Revolving female
Method of protection IIC	Fixed male	SPH	SPG	SPN	SPI	SPRN	SPRI	SPRN	SPRI
	Fixed female		SPZ	SPY	SPD	SPRY	SPRD	SPRY	SPRD
Method of protection IIB	Revolving male			SPP	SPE				
	Revolving female				SPT				
Method of protection IIC	Revolving male					SPRP	SPRE		
	Revolving female						SPRT		
Method of protection IIB	Revolving male							SPRP	SPRE
	Revolving female								SPRT

**Order code example**


Flexible conduits: lenghts and method of protection		
Lenght (mm)		Method of protection
from	to	
≥ 300	≤ 5000	Ex d IIB ÷ Ex d IIC
≥ 5000	≤ 10000	Ex d IIB

Conduit standard lenght	
Cod.	mm
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000

**Thread hubs GAS UNI ISO 7/1**

Size	1	2	3	4	5	6	7	8	9	10
Thread	1/2"	3/4"	1"	1 1/4"	1 1/2"	2	2 1/2"	3"	3 1/2"	4"
Ø min. int.	12	16	25,1	32,2	38,2	50,1	63,1	73,1	73,1	100,1
Curving radius min.	40	60	75	90	110	150	200	225	225	280

**TECHNICAL NOTES:**

- The flexible conduits and related fittings can be welded only by the manufacturer that certifies the method of protection
- Welded fittings: from 1/2" to 1" stainless steel - from 1 1/4" to 4" galvanized steel
- Revolving fittings: galvanized steel
- Flexible conduit with spiralled sheath : stainless steel
- Standard in galvanized steel (example code SPH56G)
- Available also in stainless steel (example code SPH56S)
- Available also with NPT thread (example code SPH3N10G)
- Available also with ISO thread ISO (example code SPH3I4G)