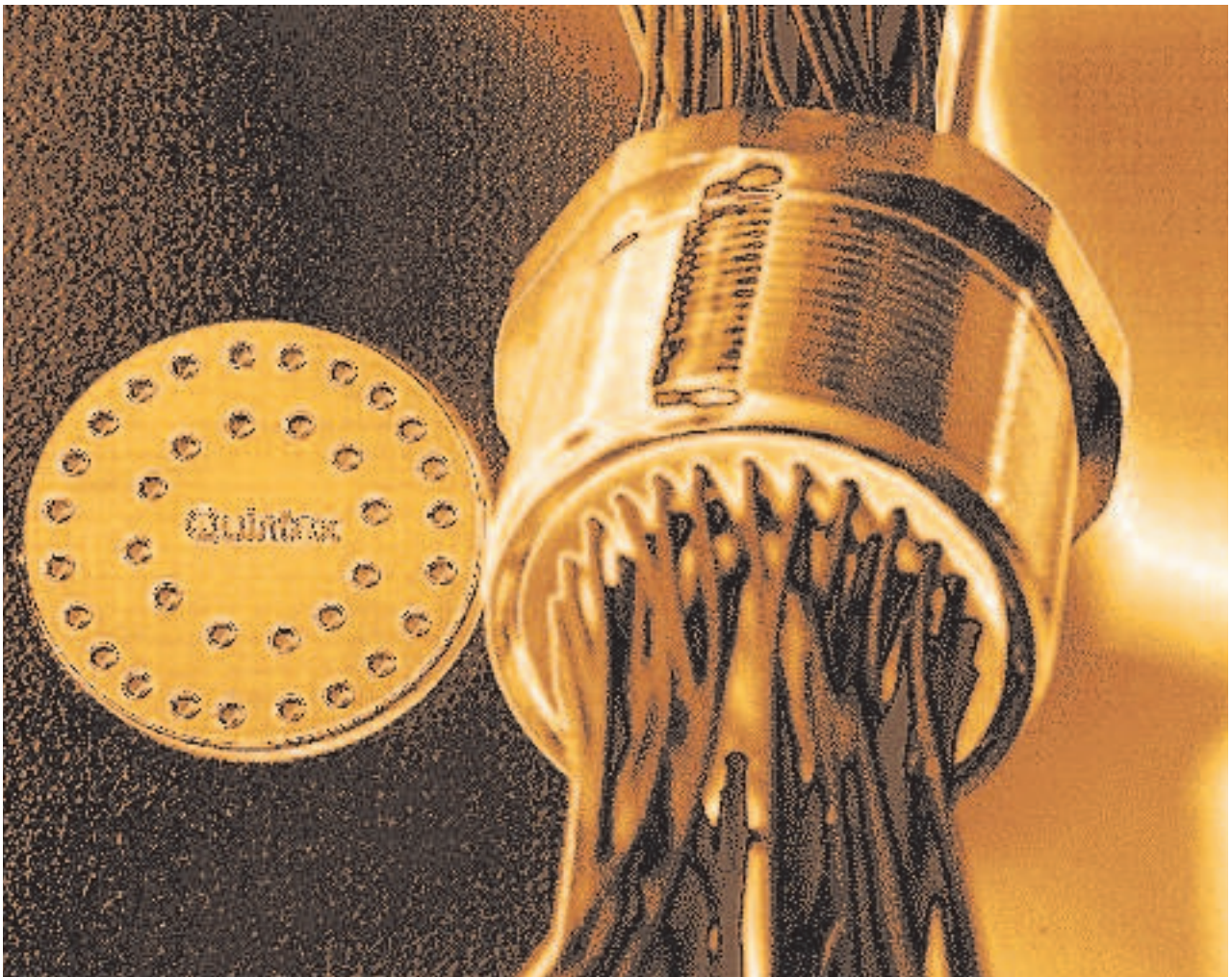


Erfahrung ist Zukunft



- Wide temperature range
- Directly usable, no re-approval
- International approvals

Description

Line bushings are used to electrically connect equipment in potentially explosive atmospheres. The connection is always established either between a flameproof enclosure and an enclosure of another type of protection in accordance with DIN EN 60079-0. Alternatively, two flameproof enclosures are connected. Thus cables are protected from direct contact. Varying with the design, line bushings can be used in intrinsically safe, measuring, control or energy circuits. Line bushings that do not feature cables, i. e. they are only cast, can be used to seal flameproof enclosures of the "d" type of protection.

Via line bushings, holes or threads can be closed. If the system is to be extended at a later time, if required, line bushings containing cables can replace the existing, sealed ones.

Applications

- Ex d enclosures, Pumps
- Sensors, Measurement devices, motors, actuators

Technical Data

Voltage : bis 1 kV

wires 0,07mm² bis 95mm²

Temperature range: -55 °C bis 200°C

max. wires quantity: up to 50 wires

Thread : M10 bis M42

Thread length : > 10mm

Material: brass nickel plated, others on request

Standard.wires : Radox 125
 -50°C bis 115°C
 Others on request



Approvals

II 2 G Ex d IIC T4/T5/T6
 Approval instituts:
 EPS08ATEX1105X
 IECEx, CSA, CSA_US, GOST

Maximum amount of wires depending on diameter of plugable or screwable line bushing

Radox wire (standard)		wire																	
		mm ²	0,25	0,34	0,5	0,75	1	1,5	2,5	4	6	10	16	25	35	50	70	95	
		AWG	24	22	20	18	17	16	14	12	10	8	6	4	2	1	2/0	3/0	
		diameter	1,45	1,6	1,7	2,2	2,6	2,7	3,35	4,05	5,2	6,4	7,6	9,2	10,8	12,3	14,6	16,3	
widness	thread	distance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1,5	
SW12	M10	7	3	3	2	2	1	1	1	1	0	0	0	0	0	0	0	0	
SW19	M16	12	9	8	8	6	5	5	4	3	2	1	1	0	0	0	0	0	
SW24	M20	16	17	15	14	11	9	9	7	5	3	2	2	1	1	1	0	0	
SW27	M24	19	24	22	21	16	13	13	10	7	5	4	3	2	1	1	1	0	
SW36	M33	28	50	48	45	35	29	28	21	17	12	8	6	5	3	3	2	1	
SW40	M36	30	50	50	50	40	34	32	25	19	13	10	7	5	4	3	2	1	
SW46	M42	36	50	50	50	50	48	46	36	28	20	14	11	8	6	5	3	2	
			plugable																
diameter	15	8	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0	
(mm)	22	15	15	13	13	10	8	8	6	4	3	2	1	1	1	0	0	0	

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wires	0,07mm ² bis 95mm ²
Temperature range:	-55 °C bis 200°C
max. wires quantity:	up to 50 wires
Thread :	M10 bis M42
Thread length :	> 10mm
Material:	brass nickel plated, others on request
Standard.wires :	Radox 125 -50°C bis 115°C Others on request



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		wire																
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		AWG	24	22	20	18	17	16	14	12	10	8	6	4	2	1	2/0	3/0
		diameter	1,45	1,6	1,7	2,2	2,6	2,7	3,35	4,05	5,2	6,4	7,6	9,2	10,6	12,3	14,6	16,3
		distance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1,5
widthness	thread																	
SW12	M10	7	3	3	2	2	1	1	1	1	0	0	0	0	0	0	0	0
SW19	M16	12	9	8	8	6	5	5	4	3	2	1	1	0	0	0	0	0
SW24	M20	16	17	15	14	11	9	9	7	5	3	2	2	1	1	1	0	0
SW27	M24	19	24	22	21	16	13	13	10	7	5	4	3	2	1	1	1	0
SW36	M33	26	50	48	45	35	29	28	21	17	12	8	6	5	3	3	2	1
SW40	M36	30	50	50	50	40	34	32	25	19	13	10	7	5	4	3	2	1
SW46	M42	36	50	50	50	50	48	46	36	28	20	14	11	8	6	5	3	2
		plugable																
diameter	15	8	3	3	3	2	2	2	1	1	0	0	0	0	0	0	0	0
(mm)	22	15	15	13	13	10	8	8	6	4	3	2	1	1	1	0	0	0

- Versatile use
- Development acc. to customer request
- Guidance through the approval process (for new devices)

Examples



Line bushing with 2 threads (co-rotation or counter-rotating possible)



Line bushing with rotating gland (rotating arc 270°C)



Line bushing with gland and hose cable

- Versatile use
- Development acc. to customer request
- Guidance through the approval process (for new devices)

Examples



Construction as a cable line bushing with Radox cable 10 wires, customer specified construction of thread, integrated strain relief



Ex i – line bushing (with Radox wires) usable from -50°C (-58°F) up to 115°C (239°F)



Customer specified construction of measuring leads with high pressure and temperature resistance (230°C) Non Ex