

JWRC Series

ATEX RF Entry Device - Explosion Proof RF Connector



I M2 Ex db I Mb
 II 2 G Ex db IIC T6...T4 Gb
 III 2 D Ex tb IIIC T80°C, T95°C, T125°C Db



Ex db I Mb
 Ex db IIC T6...T4 Gb
 Ex tb IIIC T80°C, T95°C, T125°C Db



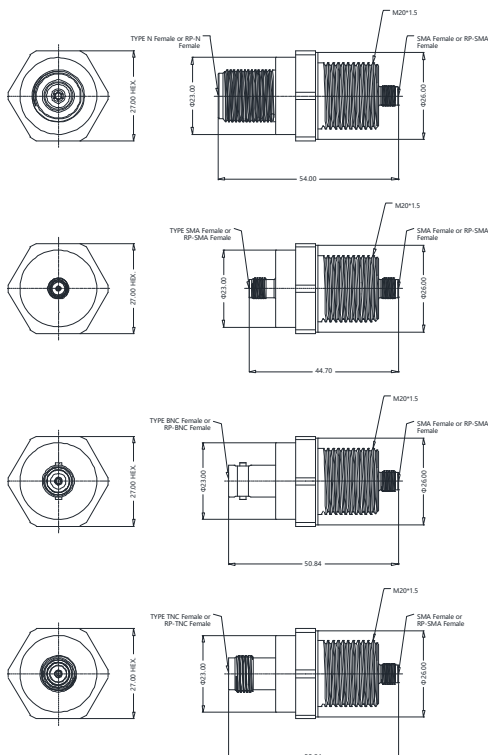
Features

- ATEX Zone 1, 21, 2, 22 and M2 mining certified.
- IECEx Zone 1, 21, 2, 22 and M2 mining certified.
- Rugged IP66/IP68 design with extended temperature range.
- Easy antenna installation with N/SMA/BNC/TNC type connector.
- Save time and money - no need to make off cable glands.
- Reduce downtime - with JIRI Series RF Safety Barrier and JWRC, you can hot swap antennas.
- No specialist tools needed - simply attach by hand.
- Small, compact form factor; can be screwed directly into Ex d enclosure walls.

APPLICATIONS	FEATURES	BENEFITS
Oil and Gas Petrochemical Mining Manufacturing	High protection Excellent RF performance Small and compact Rich connector types	Save time and money Increase flexibility Reduce downtime Easy antenna installation

Dimensions

Unit: mm



Optional Accessories

--Matched Load

Specifications

Model	JWRC
DESCRIPTION	
Certified flameproof "Ex d" RF entry device for Zone 1, 21, 2, 22 and M2 mining of potentially explosive atmospheres. Explosion-proof RF connector transit for use in hazardous areas, which works alongside the JIRI Series RF Safety Barrier to make hazardous area wireless deployments quicker and simpler.	
ELECTRICAL DATA	
Impedance:	50 Ω
Frequency Range:	DC-6Ghz
Insertion Loss:	Max. 0.3 dB (DC-3GHz); Max. 0.5 dB (3-6GHz)
Insulation Resistance:	5000 M Ω Min.
Dielectric Withstanding Voltage:	1000 Vrms Min.
MATERIAL DATA	
Body(Incl. Outer Contact):	Stainless steel 316L(Passivated)
Contact Pin:	Beryllium copper(Gold plating)
Insulator:	PTFE
Gasket:	Silicone rubber
MECHANICAL DATA	
Mating Cycles:	500 min.
Weight:	≤112g
Thread Type:	M20X1.5
ENVIRONMENTAL DATA	
Temperature Range:	-60 °C to 125 °C
Relative Humidity:	0 to 95 % non condensing
RoHS:	Compliant
MARKING	
⚡ I M2 Ex db I Mb (Ta = Group I: -60°C to +125°C) ⚡ II 2G Ex db IIC T6...T4 Gb (Ta = T6: -60°C to +80°C / Ta = T5: -60°C to +95°C / Ta = T4: -60°C to +125°C) ⚡ II 2D Ex tb IIIC T80°C, T95°C, T125°C Db (Ta = T80°C: -60°C to +80°C / Ta = T95°C: -60°C to +95°C / Ta = T125°C: -60°C to +125°C)	
CERTIFICATION	
ATEX Nr.:	CSANe 21ATEX1215X
Standards:	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014
IECEx Nr.:	IECEx CSAE 21.0018X
Standards:	IEC 60079-0:2017 IEC 60079-1:2014-06 IEC 60079-31:2013

ORDERING INFORMATION

Model Designation of JWRC series Explosion-proof RF Connector is as follows:

JWRC	X	X	X	-	X
	1	2	3	-	4

1	Antenna Side Connector	
	N	N Female
	RN	RP-N Female
	S	SMA Female
	RS	RP-SMA Female
	T	TNC Female
	RT	RP-TNC Female
	B	BNC Female
	RB	RP-BNC Female
2	Radio Side Connector	
	RS	RP-SMA Female
	S	SMA Female
3	Standard Reference	
	AI	IECEx and ATEX apparatus marking
4	Special Execution	
	Up to 6 digits for special execution in terms of marking, labeling, instruction, packaging, etc.	

Applications

