CERVIFLAM ROZ1MZ1-K (AS) 300/500V RH CPR
Instrumentation and control cables

Cervi
www.cervi.es

Construction

Conductor	Flexible bare copper wires
	Class V Acc. to UNE-EN 60228
Insulation	XLPE (Cross-linked polethylene)
	Identification: Blue+Black.
	(Numbered, only in case of multi-pair cables)
General assembly	Twisted pairs laid-up together
Overall screen	Aluminium/polyester tape + flexible tinned copper drain wire
	Overlap: 25%
	Coverage: 100%
Inner sheath	Halogen free compound
	Colour: Black
Armour	Galvanised steel wire armour
	Coverage: 90%
Outer sheath	Special halogen free compound RH
	Colour: Black

Technical characteristics

Operating voltage	300/500 V
Test Voltage	1500 V
Operating Tª (conductor)	Fixed installation: 15°C to +90°C
	Dureing installation: 0°C Min.
Min. bending radius	10xD

Application

Armored and screened instrumentation and control cable designed for use in industrial processes in fixed installations, when certain electromagnetic protection is necessary. Suitable for indoor and outdoor installations, specially where good mechanical protection and/or protection against the action of rodents is required, as well as zero halogen emission and good cable performance in case of fire. Thanks to the special hydrocarbon resistant outer sheath, specially recommended for installations in the Oil and Gas industry.

* CPR:
Cable suitable to be installed under the requirements of the CPR (Construction Product Regulation (EU) N ° 305/2011) according to the classification (Euroclass) specified in this document.

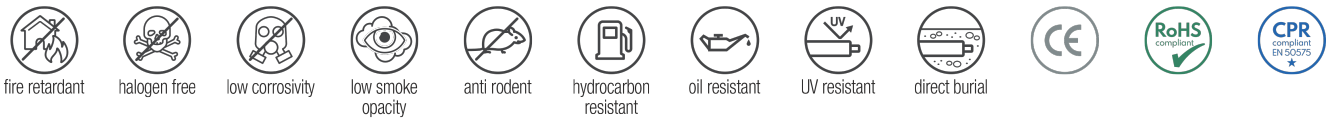
Standards / Properties

Ref. for construction/drawing	Based on UNE 50288-7
CPR Classification (Euroclass)	Cca-s1b,d1,a1
	(According to UNE-EN 50575)
Flame Retardant	UNE-EN 60332-1 (IEC 60332-1)
Fire Retardant	UNE-EN 60332-3 (IEC 60332-3)
Halogen free	UNE-EN 60754-1 (IEC 60754-1)
Low corrosivity	UNE-EN 60754-2 (IEC 60754-2)
	(pH >= 4,3 ; conductivity =< 10µS/mm)
Low smoke emission	UNE-EN 61034 (IEC 61034)

Code:
Family: 482
Revision: 2
Date: 12/04/2024

Realized: **Approved:**

Hydrocarbon resistant UIC 895 OR



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Constructive data

Code	NxS (mm2)	Inner Ø (mm)	Ø (mm)	Weight (kg/km)	R at 20°C (Ohm/Km)	I (A), 30°C	I (A) Und, 20°C
48256100	2x2x0,5	8,7	12,5	311	39	3	2,5
48256200	3x2x0,5	9,3	13,1	343	39	3	2,5
48256300	4x2x0,5	10,2	14	383	39	3	2,5
48260000	2x2x1	10,2	14	387	19,5	10	9,5
48260100	3x2x1	10,8	14,7	428	19,5	7	6
48260200	4x2x1	12,1	16,1	500	19,5	7	6
48260000	1x2x1,5	6,5	10,1	255	13,3	16	15,5
48260100	2x2x1,5	11,4	15,4	459	13,3	16	15,5
48261400	3x2x1,5	12,1	16,1	507	13,3	11	10
48261600	4x2x1,5	13,5	17,5	586	13,3	11	10

Legend

Code	Cervi codification
NxS (mm2)	Number of conductors x Section (mm2)
Inner Ø (mm)	Aprox. diameter under armour (mm)
Ø (mm)	Aprox. outer diameter (mm)
Weight (kg/km)	Approximate cable weight (kg/km)
R at 20°C (Ohm/Km)	Conductor resistance at 20ºC (Ohm/km)
I (A), 30°C	Max. current capacity (A), air (Tª 30°C)
I (A) Und, 20°C	Max. current capacity (A), underground. (Tª20°C)

Remarks

1.) Outer diameters are approximate values that may differ significantly in practice. Ask directly if you require greater precision.

2.) Ampacity values based on UNE-EN 50565 and HD 60364-5-52 (IEC 60364-5-52) . Multicore cable (Two or three loaded conductors) Installation in air with an ambient temperature of 30°C. Underground installation with a temperature of 20°C in the ground and a thermal resistivity of 2.5 K·m/W

*The ampacity values are only a reference, the real ones will always depend on the particular conditions of each installation. In practice, the maximum operating temperature in the conductor should not exceed what is indicated in the present document in any case.

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