CERVIFLAM RZ1-K (AS+) 0,6/1kV CPR
Power Cables Fire Resistant

Cervi
www.cervi.es

Construction

Conductor	Flexible bare copper wires
	Class V Acc. to UNE-EN 60228
Insulation	Mica tape + XLPE (Cross-linked polethylene)
	*Alternatively Silicone type EI2 (Cable type SZ1-K AS+)
	Identification: HD 308 S2 (See colour table)
Assembly	Insulated conductors laid up together
Outer sheath	Halogen free compound
	Colour: Orange

Technical characteristics

Operating voltage	600/1000 V
Test Voltage	3500 V
Operating Tª (conductor)	-15°C a +90°C
	During installation: 0°C Minimum
	Short circuit: 250°C (5seg)
Min. bending radius	5xD

Application

Flexible cable for transport and distribution of electrical energy in fixed installations. Designed to have an intrinsic resistance to fire, specially recommended in public facilities (according to ITC-BT 28) and in installations where it is required to maintain the integrity of the circuit in case of fire, such as signaling, detection and alarm circuits, circuits for evacuation and fire fighting services, etc...

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

Standards / Properties

Reference standards	IEC 60502-1
CPR Classification (Euroclass)	Minimum classification: 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)
Fire resistant	PH120 (120 minutes at 840°C), according:
	· Diameter up to 20mm: EN 50200, IEC 60331-2
	· Diameter from 20mm: EN 50362, IEC 60331-1
Low corrosivity	UNE-EN 60754-2 (IEC 60754-2)
	(pH >= 4,3 ; conductivity <= 10µS/mm)
Low smoke emission	UNE-EN 61034 (IEC 61034)
Halogen free	UNE-EN 60754-1 (IEC 60754-1)

flame retardant | fire retardant | fire resistant circuit integrity | halogen free | low corrosivity | low smoke opacity | flexible cable | CE | RoHS compliant | CPR compliant EN 50575

[942]

Cervi SL reserves the right to modify the document without prior notice.
The shown image is illustrative and may not necessarily be a faithful reproduction of the cable design.

CERVI, S.L. C/Libra 61, Pol.Ind.Can Parellada, 08228 Terrassa, Barcelona, cervi@cervi.es

Code:
Family: 298
Revision: 3
Date: 28/12/2023

Realized: **Approved:**

Constructive Data

Code	NxS (mm2)	Ø (mm)	Weight (kg/km)	R at 20°C (Ohm/Km)	I (A), 30°C	I (A) Und, 20°C
29801400	1x1,5	6,2	55	13,3	24	21
29801500	1x2,5	7,4	80	7,98	33	28
29801600	1x4	7,9	100	4,95	45	36
29801700	1x6	8,4	125	3,3	58	44
29801800	1x10	9,4	170	1,91	80	58
29801900	1x16	10,4	230	1,21	107	75
29802000	1x25	11,8	315	0,78	135	96
29802100	1x35	13	415	0,554	169	115
29802200	1x50	14,4	550	0,386	207	135
29802300	1x70	16,2	745	0,272	268	167
29802400	1x95	18	960	0,206	328	197
29802500	1x120	20,2	1205	0,161	383	223
29802600	1x150	22,1	1490	0,129	444	251
29802700	1x185	24,3	1790	0,106	510	281
29802800	1x240	26,9	2320	0,0801	607	324
29802900	1x300	30	2950	0,0641	703	365
29803000	1x400	34,8	3815	0,0486	823	400
29803100	1x500	38,5	4565	0,0384	946	447
29805500	2x1,5	10,2	150	13,3	26	25
29805700	2x2,5	10,4	165	7,98	36	33
29805800	2x4	11,4	215	4,95	49	43
29805900	2x6	12,3	270	3,3	63	53
29806000	2x10	14,6	395	1,91	86	71
29806100	2x16	16,6	550	1,21	115	91
29808400	3G1,5	11,3	185	13,3	26	25
29808600	3G2,5	11,6	210	7,98	36	33
29808800	3G4	12,5	265	4,95	49	43
29809420	3G6	13,5	340	3,3	63	53
29809000	3G10	15,3	480	1,91	86	71
29809100	3x16	17,7	685	1,21	100	75
29809200	3x25	22,5	1075	0,78	127	96
29809300	3x35	25,5	1425	0,554	158	115
29809400	3x50	28,3	1895	0,386	192	135
29809500	3x70	31,1	2535	0,272	246	167
29813300	4G1,5	12,2	215	13,3	23	21
29813500	4G2,5	12,4	250	7,98	32	28
29813700	4G4	13,6	320	4,95	42	36
29813800	4G6	15,1	420	3,3	54	44
29813900	4G10	17,1	605	1,91	75	58
29814000	4G16	19,5	860	1,21	100	75
2981400F	4x16	19,5	860	1,21	100	75
29814100	4x25	25	1345	0,78	127	96
29814200	4x35	27,3	1765	0,554	158	115
29814300	4x50	31,3	2395	0,386	192	135

[942]

Cervi SL reserves the right to modify the document without prior notice.
The shown image is illustrative and may not necessarily be a faithful reproduction of the cable design.

CERVI, S.L. C/Libra 61, Pol.Ind.Can Parellada, 08228 Terrassa, Barcelona, cervi@cervi.es

Code	NxS (mm2)	Ø (mm)	Weight (kg/km)	R at 20°C (Ohm/Km)	I (A), 30°C	I (A) Und, 20°C
29814400	4x70	36,2	3285	0,272	246	167
29814500	4x95	40,4	4230	0,206	298	197
29814800	4x120	46	5390	0,161	346	223
29814700	4x150	50,3	6675	0,129	399	251
29811600	4x185	56,5	8150	0,106	456	281
29815000	4x240	62,2	10465	0,0801	538	324
29816200	5G1,5	13,6	265	13,3	23	21
29816300	5G2,5	13,8	300	7,98	32	28
29816400	5G4	15	385	4,95	42	36
29816500	5G6	16,4	500	3,3	54	44
29816600	5G10	18,6	725	1,91	75	58
29816700	5G16	21,5	1045	1,21	100	75
29816800	5G25	27,2	1630	0,78	127	96
29816900	5G35	30,5	2155	0,554	158	115
29817000	5G50	35	2945	0,386	192	135
29817100	5G70	40,2	4040	0,272	246	167

Legend

Code	Cervi codification
NxS (mm2)	Number of conductors x Section (mm2)
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 HD 60364-5-52 standard (IEC 60364-5-52) with the following conditions:

· For installations in air: Reference installation method E or F. Single core or multicore cables (Two or three loaded conductors), with an ambient temperature of 30°C.

· For underground installations: Reference installation method D1. Single core or multicore cables (Two or three loaded conductors), 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.

.

[942]

Cervi SL reserves the right to modify the document without prior notice.
The shown image is illustrative and may not necessarily be a faithful reproduction of the cable design.

CERVI, S.L. C/Libra 61, Pol.Ind.Can Parellada, 08228 Terrassa, Barcelona, cervi@cervi.es

Code:
Family: 298
Revision: 3
Date: 28/12/2023

Realized:

Approved:

Colour Table

N° Conductors	Insulation colour
2x	Blue, Brown
3x	Brown, Black, Grey
3G	Blue, Brown, Yellow/Green
4x	Blue, Brown, Black, Grey
4G	Brown, Black, Grey, Yellow/Green
5G	Blue, Brown, Black, Grey, Yellow/Green
> 5 (G)	Black Numbered + Yellow/Green
> 5 (x)	Black Numbered

[942]

Cervi SL reserves the right to modify the document without prior notice.
The shown image is illustrative and may not necessarily be a faithful reproduction of the cable design.

CERVI, S.L. C/Libra 61, Pol.Ind.Can Parellada, 08228 Terrassa, Barcelona, cervi@cervi.es