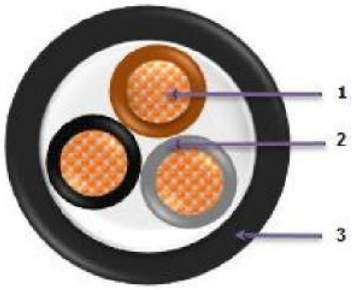
RZ1-K

CU/XLPE/LSOH 600/1000V



Construction

1. **Conductor:** Plain copper, IEC 60228

2. **Insulation:** XLPE compound
   Core colour:
   Live – brown (L1), Black (L2), Grey (L3)
   Neutral – Blue
   Earth – green/yellow

3. **Sheath:** LSOH compound
   Standard colour black

Application
Unarmoured power cable for low voltage electrical distribution suitable to install in air, in duct, in trench or on cable tray for fire hazardous risk.

Technical data

Rated voltage:	600/1000V
Operating temperature:	-15°C to +90°C
Insulation resistance:	≥1000M Ohm*km
AC voltage test:	3500V/5min
Standard:	UNE 21123-4
	IEC 60502-1

Cable Marking: Prysmian RZ1-K Cable IEC 60502-1 XLPE/LSOH *Size Voltage Year (meter mark)*

Cable Performance

Short-circuit Temp. +250℃ 5 sec


Min.bending radius 12D


Flame retardant: EN 60332-1-2

EN 60332-3-24


Without corrosive gases EN 50267

EN 61034

Laying condition


Max installation temp -5°C


Open air


Buried duct


Duct or cable tray


Buried Trough

Construction and Dimensional data

No	Conductor cross-section	Thickness of insulation	Class of conductor IEC60228	Max. Outside Diameter	Weight of cable approx.	Max. DC resistance at 20°C
	mm^2	mm		mm	kg/km	**Ω/km**
1.	1×1.5	0.7	2	6.5	48	12.1
2.	1×2.5	0.7	2	6.9	62	7.41
3.	1×4	0.7	2	7.7	81	4.61
4.	1×6	0.7	2	8.4	102	3.08
5.	1×10	0.7	2	9.4	146	1.83
6.	1×16	0.7	2	10.5	206	1.15
7.	1×25	0.9	2	12.4	300	0.727
8.	1×35	0.9	2	13.8	431	0.524
9.	1×50	1.0	2	15.3	518	0.387
10.	1×70	1.1	2	17.1	717	0.268
11.	1×95	1.1	2	18.7	990	0.193
12.	1×120	1.2	2	20.9	1207	0.153
13.	1×150	1.4	2	24.2	1450	0.124
14.	1×185	1.6	2	25.9	1800	0.0991
15.	1×240	1.7	2	28.2	2300	0.0754
16.	1×300	1.8	2	31.6	2960	0.0601
17.	1×400	2.0	2	36.8	3989	0.0470
18.	1×500	2.2	2	40.3	4900	0.0366
19.	1×630	2.4	2	46.0	6400	0.0283
1.	2×1.5	0.7	2	11.4	105	12.1
2.	2×2.5	0.7	2	12.9	135	7.41
3.	2×4	0.7	2	13.9	175	4.61
4.	2×6	0.7	2	15.2	230	3.08
5.	2×10	0.7	2	17.6	340	1.83
6.	2×16	0.7	2	19.3	480	1.15
7.	2×25	0.9	2	23.2	700	0.727
8.	2×35	0.9	2	25.1	930	0.524
9.	2×50*	1.0	2	23.0	1000	0.387
10.	2×70*	1.1	2	24.8	1400	0.268
11.	2×95*	1.1	2	28.3	1950	0.193

Note:*Stranded sector conductor.

No	Conductor cross-section	Thickness of insulation	Class of conductor IEC60228	Max. Outside Diameter	Weight of cable approx.	Max. DC resistance at 20℃
	mm^2	mm		mm	kg/km	Ω/km
1.	3×1.5	0.7	2	11.7	135	12.1
2.	3×2.5	0.7	2	13.1	180	7.41
3.	3×4	0.7	2	14.0	225	4.61
4.	3×6	0.7	2	15.4	300	3.08
5.	3×10	0.7	2	17.7	430	1.83
6.	3×16	0.7	2	20.2	630	1.15
7.	3×25	0.9	2	23.9	940	0.727
8.	3×35	0.9	2	26.4	1250	0.524
9.	3×50*	1.0	2	26.8	1500	0.387
10.	3×70*	1.1	2	30.9	2140	0.268
11.	3×95*	1.1	2	35.4	2960	0.193
12.	3×120*	1.2	2	37.2	3760	0.153
13.	3×150*	1.4	2	42.6	4420	0.124
14.	3×185*	1.6	2	46.8	5950	0.0991
15.	3×240*	1.7	2	53.0	7100	0.0754
16.	3×300*	1.8	2	57.2	9300	0.0601
17.	3×400*	2.0	2	66.2	12000	0.0470
1.	4×1.5	0.7	2	12.3	160	12.1
2.	4×2.5	0.7	2	13.6	210	7.41
3.	4×4	0.7	2	14.9	280	4.61
4.	4×6	0.7	2	16.9	380	3.08
5.	4×10	0.7	2	20.3	530	1.83
6.	4×16	0.7	2	21.9	800	1.15
7.	4×25	0.9	2	26.7	1240	0.727
8.	4×35	0.9	2	29.2	1600	0.524
9.	4×50*	1.0	2	30.0	2000	0.387
10.	4×70*	1.1	2	33.8	2800	0.268
11.	4×95*	1.1	2	38.9	4000	0.193
12.	4×120*	1.2	2	44.4	5000	0.153
13.	4×150*	1.4	2	48.4	6100	0.124
14.	4×185*	1.6	2	52.0	7600	0.0991
15.	4×240*	1.7	2	61.2	9500	0.0754
16.	4×300*	1.8	2	67.1	12400	0.0601
17.	4×400*	2.0	2	76.4	16700	0.0470

Note:*Stranded sector conductor.

No	Conductor cross-section	Thickness of insulation	Class of conductor IEC60228	Max. Outside Diameter	Weight of cable approx.	Max. DC resistance at 20℃
	mm^2	mm		mm	kg/km	Ω/km
1.	5×2.5	0.7	2	16.8	280	7.41
2.	5×4	0.7	2	17.7	378	4.61
3.	5×6	0.7	2	19.4	500	3.08
4.	5×10	0.7	2	22.5	790	1.83
5.	5×16	0.7	2	25.0	1125	1.15
6.	5×25	0.9	2	30.0	1730	0.727
7.	5×35	0.9	2	35.0	2350	0.524
8.	5×50	1.0	2	37.5	3000	0.387
9.	5×70	1.1	2	43.5	4120	0.268
10.	5×95	1.1	2	48.5	5620	0.193
11.	5×120	1.2	2	54.0	7050	0.153
12.	5×150	1.4	2	61.0	8550	0.124
13.	5×185	1.6	2	66.5	10470	0.0991
14.	5×240	1.7	2	74.0	13800	0.0754
1.	4×2.5+1×1.5	0.7/0.7	2	13.8	220	7.41/12.1
2.	4×4+1×2.5	0.7/0.7	2	14.7	320	4.61/7.41
3.	4×6+1×4	0.7/0.7	2	17.0	420	3.08/4.61
4.	4×10+1×6	0.7/0.7	2	19.7	650	1.83/3.08
5.	4×16+1×10	0.7/0.7	2	22.9	950	1.15/1.83
6.	4×25+1×16	0.9/0.7	2	26.8	1450	0.727/1.15
7.	4×35+1×16	0.9/0.7	2	29.6	1850	0.524/1.15
8.	4×50+1×25	1.0/0.9	2	33.8	2500	0.387/0.727
9.	4×70+1×35	1.1/0.9	2	38.1	3450	0.268/0.524
10.	4×95+1×50	1.1/1.0	2	42.3	4700	0.193/0.387
11.	4×120+1×70	1.2/1.1	2	47.4	6000	0.153/0.268
12.	4×150+1×70	1.4/1.1	2	52.3	7100	0.124/0.268
13.	4×185+1×95	1.6/1.1	2	58.4	9000	0.0991/0.193
14.	4×240+1×120	1.7/1.2	2	64.5	10400	0.0754/0.153
15.	4×300+1×150	1.8/1.4	2	72.0	14100	0.0601/0.124

No	Conductor cross-section	Thickness of insulation	Class of conductor IEC60228	Max. Outside Diameter	Weight of cable approx.	Max. DC resistance at 20℃
	mm^2	mm		mm	kg/km	Ω/km
1.	3×2.5+2×1.5	0.7/0.7	2	14.0	220	7.41/12.1
2.	3×4+2×2.5	0.7/0.7	2	15.2	320	4.61/7.41
3.	3×6+2×4	0.7/0.7	2	17.4	420	3.08/4.61
4.	3×10+2×6	0.7/0.7	2	20.5	650	1.83/3.08
5.	3x16+2x10	0.7/0.7	2	23.5	900	1.15/1.83
6.	3x25+2x16	0.9/0.7	2	28.6	1300	0.727/1.15
7.	3x35+2x25	0.9/0.9	2	30.6	1700	0.524/1.15
8.	3x50+2x35	1.0/0.9	2	34.8	2200	0.387/0.727
9.	3x70+2x35	1.1/0.9	2	40.6	3100	0.268/0.524
10.	3x95+2x50	1.4/1.1	2	44.7	4150	0.193/0.387
11.	3x120+2x70	1.2/1.1	2	50.4	5400	0.153/0.268
12.	3x150+2x70	1.4/1.1	2	56.2	6300	0.124/0.268
13.	3×185+2×95	1.6/1.1	2	62.0	8100	0.0991/0.193
14.	3x240+2x120	1.7/1.2	2	70.0	10000	0.0754/0.153
15.	3x300+2x150	1.8/1.4	2	75.8	11900	0.0601/0.124
1.	3×2.5+1×1.5	0.7/0.7	2	13.6	200	7.41/12.1
2.	3×4+1×2.5	0.7/0.7	2	14.8	270	4.61/7.41
3.	3×6+1×4	0.7/0.7	2	16.4	360	3.08/4.61
4.	3×10+1×6	0.7/0.7	2	19.2	480	1.83/3.08
5.	3×16+1×10	0.7/0.7	2	22.5	760	1.15/1.83
6.	3×25+1×16	0.9/0.7	2	25.8	1040	0.727/1.15
7.	3×35+1×16	0.9/0.7	2	29.2	1420	0.524/1.15
8.	3×50*+1×25	1.0/0.9	2	29.7	1830	0.387/0.727
9.	3×70*+1×35	1.1/0.9	2	34.5	2670	0.268/0.524
10.	3×95*+1×50	1.1/1.0	2	39.4	3650	0.193/0.387
11.	3×120*+1×70	1.2/1.1	2	44.6	4650	0.153/0.268
12.	3×150*+1×70	1.4/1.1	2	47.3	5600	0.124/0.268
13.	3×185*+1×95	1.6/1.1	2	53.2	6900	0.0991/0.193
14.	3×240*+1×120	1.7/1.2	2	61.1	9000	0.0754/0.153
15.	3×300*+1×150	1.8/1.4	2	67.6	10400	0.0601/0.124

Note:*Stranded sector conductor.

AENOR

AENOR Product Certificate
Electric cables

AENOR
Producto Certificado

042/000992

AENOR certifies that the organization

PRYSMIAN CABLES SPAIN, S.A.U.

registered office	CR C-15 KM 2. PI. MASIA D´EN NOTARI 08800 VILANOVA i LA GELTRÚ *(*Barcelona - España*)*
supplies	INDUSTRIAL CABLES OF RATED VOLTAGE 0,6 /1 kV. XLPE INSULATED AND POLYOLEFIN SHEATHED CABLES. FLEXIBLE CONDUCTOR.
in compliance with	UNE 21123-4:2017
Designation	RZ1-K *(*AS*)*
Trade Mark	FIREX PROTECH EVOLUCION
Restriction	From 1x1,5 mm^2 to 1x630 mm^2; From 2x1,5 mm^2 to 2x95 mm^2; 2x240 mm^2; 2x300 mm^2; From 3x1,5 mm^2 to 3x300 mm^2; From 4x1,5 mm^2 to 4x240 mm^2; From 5x1,5 mm^2 to 5x50 mm^2
Production site	PI CAN VINYALETS, 2 08130 SANTA PERPETUA DE LA MOGODA *(*Barcelona - España*)*
Certification scheme	In order to grant this Certificate, AENOR has tested the product and has verified the quality system implemented for its manufacture. AENOR performs these tasks periodically while the Certificate has not been cancelled, in accordance with Specific Rules RP 042.01.
	This certificate supersedes 042/000992, dated 2016-09-13
First issued on	2010-04-30
Modified on	2019-02-19
Validity date	2024-02-19

Rafael GARCÍA MEIRO
Chief Executive Officer

Original Electronic Certificate

AENOR INTERNACIONAL S.A.U.
Génova, 6. 28004 Madrid. España
Tel. 91 432 60 00.- www.aenor.com

Product certification body accredited by ENAC, number 01/C-PR275