

INDUSTRIAL CABLES FOR HIGH EXIGENCY



INDEX

3 UNDERGROUND CABLES

4 SUFLEX - PVC 1.1 kV

9 SUFLEX XLPE 1.1 kV

14 SUFLEX HALOGEN-FREE 1.1 kV

20 ERPLA INDUSTRIES/ THE COMPANY

21 ERPLA IN THE WORLD



Industrial cables for high exigency

Fixed power installations in underground layouts or on trays, especially in densely populated areas and/or areas with difficult evacuation.



Designed for power supply or distribution of low-voltage power in buildings and industrial facilities, in underground layouts or on trays; with the limitations imposed by the Electrical Installation Regulations of the place where the installation is located. Especially suitable for installations where wide maneuverability and maximum power capacity are required.

Work Conditions



In trays



Directly buried



Buried in channels



Buried in pipes

Features



Manufacturing standard



Nominal voltage



Service temperature



Flexible strands



Non-flame propagation



Non-flame propagation



Resistance to chemical agents



Sequential length marking



All ERPLA cables are manufactured under the ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management System, certified by IRAM.

THE CHOSEN CABLE

SUFLEX

PVC 1.1 kV

Subway power cables, copper or aluminum, with PVC insulation and sheath, for service voltages of 1.1 Kv.



Construction

ERPLA's Suflex PVC cables are formed according to their section by flexible cords, the unipolar ones ranging from 1.5 to 300 mm², the multipolar ones up to 35 mm², thereafter they are semi-rigid either copper or aluminum.

The PVC used for insulation complies with IRAM NM 247-1 standard, and phase identification is done by means of standardized colors.

Other colors can be manufactured upon request, depending on the quantity requested in the order.

A non-hygroscopic extruded PVC sheathing is applied over the Isolated Phases, or tape may

also be applied, depending on the cable, which gives the assembly a circular shape.

In those cases where greater mechanical protection is required, above the filling it can have a steel strap (multipolar) or aluminum (unipolar), which will be applied helically.

ERPLA's Suflex cables are marked with ink indicating the product name, section, nominal voltage, country of origin, sequential, and our acronym ERPLA.

The color of the final sheath is violet in our standard, other colors are available on request.

Uses

ERPLA's PVC Suflex Cables are suitable for all applications and conditions of fixed system installations, whether outdoors, on cable trays, electrical ducts, or directly buried, in both wet and dry environments.

The normal operating temperature is 70 C°,

while the short-circuit temperature can reach 160 C°.

They are mainly used in power systems, energy distribution, power supply, power supply to machinery and electrical equipment, control and lighting panels, substations and power plants.

Unipolar Flexible Cable Assembly - Cu

Nominal Section	Wire Diameter	Insulation Thickness	Nominal Sheath Thickness	Outer Diameter of Cable ¹	Final Weight of Cable ¹
mm ²	mm	mm	mm	mm	Kg/Km
1.50	0.26	0.80	1.40	5.9	56
2.50	0.26	0.80	1.40	6.4	69
4.00	0.26/0.31	1.00	1.40	7.3	95
6.00	0.26/0.31	1.00	1.40	7.9	118
10.00	0.40	1.00	1.40	8.8	163
16.00	0.40	1.00	1.40	9.9	226
25.00	0.40	1.20	1.40	12.4	318
35.00	0.40	1.20	1.40	13.6	417
50.00	0.40	1.40	1.40	16.1	600
70.00	0.40	1.40	1.40	17.8	790
95.00	0.40	1.60	1.50	20.15	1036
120.00	0.40	1.60	1.50	22	1263
150.00	0.40	1.80	1.60	24.6	1581
185.00	0.40	2.00	1.70	26.95	1896
240.00	0.40	2.20	1.80	28.9	2485
300.00	0.40	2.40	1.90	30.5	3115

¹ Approximate Values

Insulation Colors

Number of Phases	Light Blue	Brown	Red	Black	Green yellow	Purple
1		•				
2	•	•				
3		•	•	•		
4	•	•	•	•		
5	•	•	•	•	•	
Sheath						•

IRAM CERTIFICATIONS



Construction Standards
IRAM 2178-1 / IEC 60502-1
Conductor Standards
IRAM NM 280 / IEC 60228

THE CHOSEN CABLE

Multipolar - Flexible Formation - Cu

Nominal Section	Wire Diameter	Insulation Thickness	Nominal Sheath Thickness	Outer Diameter of Cable ¹	Final Weight of Cable ¹
mm ²	N° x mm	mm	mm	mm	Kg/Km
2x1.50	0.26	0.80	1.80	9.1	115
2x2.50	0.26	0.80	1.80	10	147
2x4.00	0.26/0.31	1	1.80	12	215
2x6.00	0.26/0.31	1	1.80	13	274
2x10.00	0.40	1	1.80	14.9	367
2x16.00	0.40	1	1.80	20.5	696
2x25.00	0.40	1	1.80	23.5	959
2x35.00	0.40	1	1.80	26	1225
3x1.50	0.26	0.80	1.80	9.6	135
3x2.50	0.26	0.80	1.80	10.6	176
3x4.00	0.26/0.31	1	1.80	12.6	260
3x6	0.26/0.31	1	1.80	13.8	335
3x10	0.40	1	1.80	15.8	483
3x16	0.40	1	1.80	21.5	851
3x25	0.40	1	1.80	24.8	1186
3x35	0.40	1	1.80	27.3	1535
4x1.5	0.26	0.80	1.80	10.5	161
4x2.5	0.26	0.80	1.80	11.5	212
4x4	0.26/0.31	1	1.80	13.8	316
4x6	0.26/0.31	1	1.80	15.1	411
4x10	0.40	1	1.80	17.3	599
4x16	0.40	1	1.80	23.4	1038
3x25+16	0.40	1.20/1	1.80	26.2	1252
3x35+16	0.40	1.20/1	1.80	28.3	1572
5x1.5	0.26	0.8	1.80	11.4	194
5x2.5	0.26	0.8	1.80	12.6	258
5x4	0.26/0.31	1	1.80	15.1	385
5x6	0.26/0.31	1	1.80	16.6	505
5x10	0.40	1	1.80	19.1	740
5x16	0.40	1	1.80	25.4	1259

¹ Approximate Values

Multipolar - Semi-Rigid Formation - Cu

Nominal Section	Conductor Diameter	Insulation Thickness	Nominal Sheath Thickness	Outer Diameter of Cable ¹	Final Weight of cable (Cu) ¹	Final Weight of cable (Al) ¹
mm ²	mm	mm	mm	mm	Kg/Km	Kg/Km
3x50	-	1.40	1.80	25	1829	933
3x70	-	1.40	2	29	2566	1224
3x95	-	1.6	2.1	33	3368	1586
3x120	-	1.6	2.2	35	4174	1908
3x150	-	1.80	2.3	39	5126	2302
3x185	-	1.8	2.5	44	6284	2820
3x240	-	2	2.7	49	811	3595
3x300	-	2.4	2.9	54	10112	4391
3x25+16	-	1.2/1.0	1.8	26	1437	859
3x35+16	-	1.2/1.0	1.8	28	1765	1009
3x50+25	-	1.4/1.2	1.9	27	2125	1069
3x70+35	-	1.6/1.4	2	31	2944	1385
3x95+50	-	1.6/1.4	2.2	35	3901	1819
3x120+70	-	1.6/1.4	2.3	39	5006	2300
3x150+70	-	1.8/1.40	2.4	42	5888	2624
3x185+95	-	2.0/1.6	2.6	47	7309	3247
3x240+120	-	2.2/1.8	2.8	52	9397	4128
3x300+150	-	2.4/2.8	2.9	57	11646	4979

⁵ Compact Sectoral Strand. * Values separated by slashes correspond to phase and neutral, respectively.

¹ Approximate values. (-) Can be round or sector-shaped, depending on the requirements.

Electrical characteristics of copper cables

Nominal Section	Max. current in air, single-core	Max. current in air, multicore	Max. current when buried, single-core	Max. current when buried, multicore	Voltage drop in single-core	Voltage drop in multicore
mm ²	A	A	A	A	V/A km	V/A km
1.5	18	16	30	29	21	21
2.5	25	22	39	39	13	13
4	33	30	50	51	8.7	8.61
6	41	37	63	65	5.86	5.77
10	56	52	84	88	3.46	3.37
16	75	70	108	112	2.24	2.16
25	127	88	140	144	1.41	1.34

THE CHOSEN CABLE

Nominal Section	Max. current in air, single-core	Max. current in air, multicore	Max. current when buried, single-core	Max. current when buried, multicore	Voltage drop in single-core	Voltage drop in multicore
mm ²	A	A	A	A	V/A km	V/A km
35	157	110	168	173	1.06	0.98
50	191	133	198	207	0.82	0.74
70	244	170	243	254	0.61	0.54
95	297	207	290	306	0.48	0.41
120	345	240	330	350	0.41	0.34
150	397	277	370	393	0.35	0.29
185	453	317	419	445	0.32	0.25
240	535	374	488	519	0.27	0.21
300	617	432	553	587	0.25	0.18

Electrical characteristics of aluminum cables

Nominal Section	Corriente Adm, aires unipolares	Corriente Adm, aire Multipolares	Corriente Adm, enterrados unipolares	Corriente Adm, enterrados multipolares	Caída de tensión unipolares	Caída de tensión Multipolares
mm ²	A	A	A	A	V/A km	V/A km
25	97	68	109	112	2.23	2.15
35	121	83	130	134	1.65	1.58
50	147	102	153	161	1.26	1.18
70	189	130	188	198	0.91	0.84
95	231	159	226	237	0.7	0.63
120	268	184	258	272	0.58	0.51
150	310	213	288	305	0.49	0.43
185	354	243	326	346	0.43	0.36
240	419	287	380	403	0.36	0.29
300	485	331	430	457	0.32	0.25

Note: 1) Ground temperature 25°C, ambient temperature 40°C, conductor temperature 70°C.

In air: flat arrangement, either a single multicore cable or individual cables spaced 1 diameter apart, perforated tray.

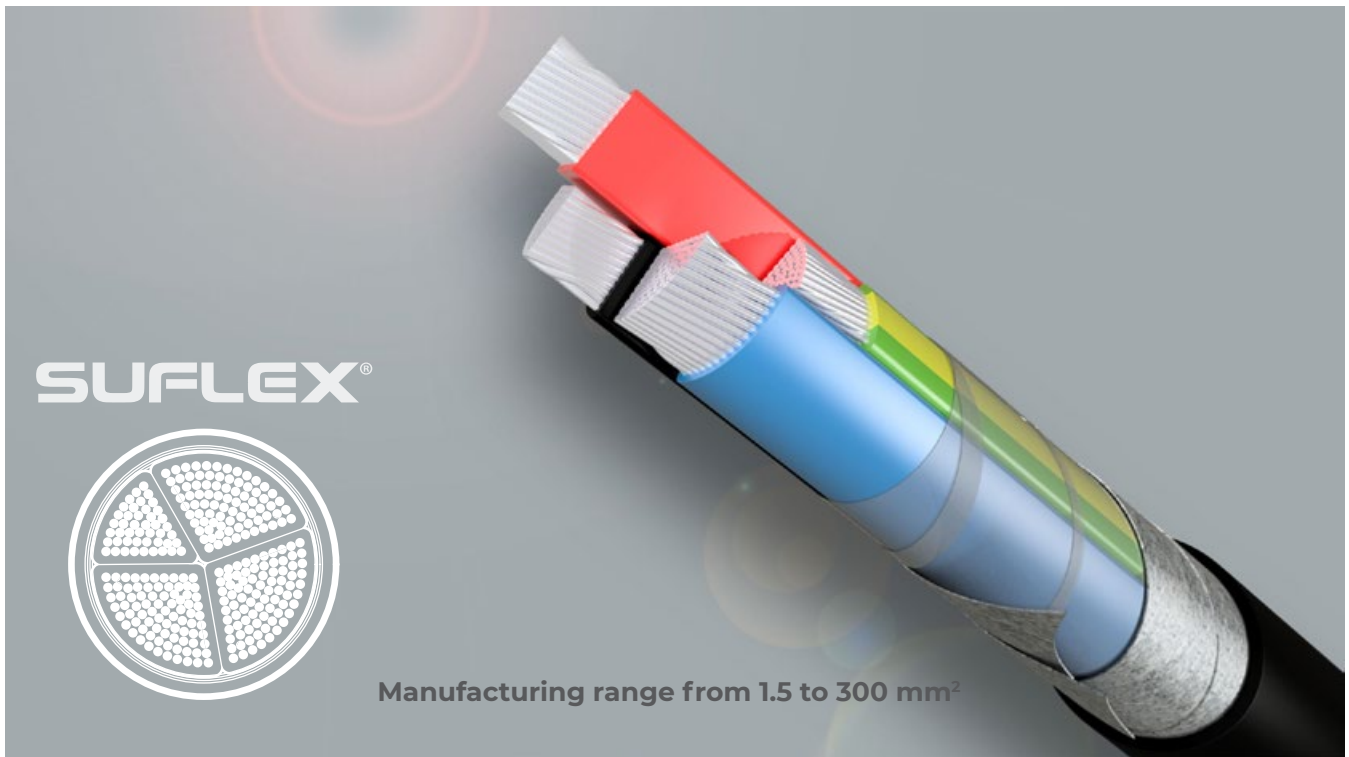
In the ground: installation depth 0.7m, either a single multicore cable or individual cables touching each other. Ground resistivity 1 km/W. Balanced three-phase current.

2) Considered for three-phase systems, Power factor = 0.8. For other installation conditions, apply correction factors. The current ratings are approved by the Argentine Electrotechnical Association.

SUFLEX

XLPE 1.1 kV

Underground power cables, either copper or aluminum, with XLPE insulation and PVC sheath, for service voltages of 1.1 kV.



Construction

ERPLA's Suflex XLPE cables are formed according to their section, with flexible strands for single cores ranging from 1.5 to 300 mm², and for multipolar cables up to 35 mm², above which they are semi-rigid, whether made of copper or aluminum.

The XLPE used for insulation complies with IRAM NM 247-1 standard, and phase identification is done using standardized colors. Upon request, they can be manufactured in other colors, depending on the quantity in the order.

An extruded, non-hygroscopic XLPE coating is applied to the insulated and wired phases,

or tape is applied, depending on the cable, giving the assembly a circular shape.

In cases where greater mechanical protection is required, a steel strip (multi core) or aluminum strip (single core) can be applied helically over the filling.

ERPLA's Suflex cables are marked with ink, indicating the product name, section, nominal voltage, country of origin, sequential number, and our ERPLA acronym.

The final sheath color is violet as per our standard, but can be made in another color upon request.

THE CHOSEN CABLE

Uses

ERPLA's Suflex XLPE cables are suitable for all applications and conditions of fixed system installations, whether outdoors, on cable trays, electrical ducts, or directly buried, in both wet and dry environments.

The normal service temperature is 90°C, while

the overload and short-circuit temperature can reach 130°C and 160°C, respectively.

They are mainly used in power systems, power distribution, feeding machinery and electrical equipment, control panels and lighting, substations, and power plants.

Single-core Flexible Formation - Cu

Nominal section	Wire diameter	Insulation thickness	Nominal sheath thickness	Outer cable diameter ¹	Final cable weight ¹
mm ²	mm	mm	mm	mm	Kg/Km
1.50	0.26	0.80	1.40	5.9	56
2.50	0.26	0.80	1.40	6.4	69
4.00	0.26/0.31	1.00	1.40	7.3	95
6.00	0.26/0.31	1.00	1.40	7.9	118
10.00	0.40	1.00	1.40	8.8	163
16.00	0.40	1.00	1.40	9.9	226
25.00	0.40	1.20	1.40	12.4	318
35.00	0.40	1.20	1.40	13.6	417
50.00	0.40	1.40	1.40	16.1	600
70.00	0.40	1.40	1.40	17.8	790
95.00	0.40	1.60	1.50	20.15	1036
120.00	0.40	1.60	1.50	22	1263
150.00	0.40	1.80	1.60	24.6	1581
185.00	0.40	2.00	1.70	26.95	1896
240.00	0.40	2.20	1.80	28.9	2485
300.00	0.40	2.40	1.90	30.5	3115

¹ Approximate values

Colores de las aislaciones

Nº de Phases	Light Blue	Brown	Red	Black	Green yellow	Purple
1		•				
2	•	•				
3		•	•	•		
4	•	•	•	•		
5	•	•	•	•	•	
Sheath						•

IRAM CERTIFICATIONS



Construction Regulations

IRAM 2178-1 / IEC 60502-1

Conductor Regulations

IRAM NM 280 / IEC 60228

Multicore - Flexible Formation - Cu

Nominal section	Wire diameter	Insulation thickness	Nominal sheath thickness	Outer cable diameter ¹	Final cable weight ¹
mm ²	mm	mm	mm	mm	Kg/Km
2x1.50	0.26	0.7	1.80	9.1	115
2x2.50	0.26	0.7	1.80	10	147
2x4.00	0.26/0.31	0.7	1.80	12	215
2x6.00	0.26/0.31	0.7	1.80	13	274
2x10.00	0.40	0.7	1.80	14.9	367
2x16.00	0.40	0.7	1.80	20.5	696
2x25.00	0.40	0.9	1.80	23.5	959
2x35.00	0.40	0.9	1.80	26	1225
3x1.50	0.26	0.7	1.80	9.6	135
3x2.50	0.26	0.7	1.80	10.6	176
3x4.00	0.26/0.31	0.7	1.80	12.6	260
3x6	0.26/0.31	0.7	1.80	13.8	335
3x10	0.40	0.7	1.80	15.8	483
3x16	0.40	0.7	1.80	21.5	851
3x25	0.40	0.9	1.80	24.8	1186
3x35	0.40	0.9	1.80	27.3	1535
4x1.5	0.26	0.7	1.80	10.5	161
4x2.5	0.26	0.7	1.80	11.5	212
4x4	0.26/0.31	0.7	1.80	13.8	316
4x6	0.26/0.31	0.7	1.80	15.1	411
4x10	0.40	0.7	1.80	17.3	599
4x16	0.40	0.7	1.80	23.4	1038
3x25+16	0.40	0.90/0.70	1.80	26.2	1252
3x35+16	0.40	0.90/0.70	1.80	28.3	1572
5x1.5	0.26	0.7	1.80	11.4	194
5x2.5	0.26	0.7	1.80	12.6	258
5x4	0.26/0.31	0.7	1.80	15.1	385
5x6	0.26/0.31	0.7	1.80	16.6	505
5x10	0.40	0.7	1.80	19.1	740
5x16	0.40	0.7	1.80	25.4	1259

¹ Approximate values

THE CHOSEN CABLE

Multicore - Semi-Rigid Formation - Cu / Al

Nominal section	Conductor diameter	Insulation thickness	Nominal sheath thickness	Outer cable diameter ¹	Final cable weight (Cu) ¹	Final cable weight (Al) ¹
mm ²	mm	mm	mm	mm	Kg/Km	Kg/Km
3x50	-	1.0	2.0	25	1794	933
3x70	-	1.1	2.1	29	2521	1224
3x95	-	1.1	2.2	33	3261	1586
3x120	-	1.2	2.4	35	4089	1908
3x150	-	1.48	2.5	42	5016	2302
3x185	-	1.70	2.50	42	6143	2636
3x240	-	1.80	2.80	52	7871	3327
3x300	-	1.90	3.00	56	9795	4039
3x25+16	-	1.2/1.0	1.8	26	-	635
3x35+16	-	1.2/1.0	1.8	28	-	758
3x50+25	-	1.0/0.9	1.9	27	1900	843
3x70+35	-	1.1/0.9	2	31	2660	1102
3x95+50	-	1.1/1.0	2.2	35	3524	1442
3x120+70	-	1.2/1.1	2.3	39	4545	1840
3x150+70	-	1.5/1.1	2.5	42	5719	2443
3x185+95	-	1.7/1.1	2.7	46	7084	2981
3x240+120	-	1.8/1.2	2.9	51	9092	3786
3x300+150	-	1.9/1.4	3.1	59	11000	4589

⁵ Compact sectoral stranded. * Values separated by slashes correspond to phase and neutral respectively.

¹ Approximate values. (-) They can be round or sector-shaped, depending on the specific requirement.

Electrical characteristics of copper cables

Nominal section	Max. current in air, single-core	Max. current in air, multicore	Max. current when buried, single-core	Max. current when buried, multicore	Voltage drop in single-core	Voltage drop in multicore
mm ²	A	A	A	A	V/A km	V/A km
1.5	19	24	32	34	21	21
2.5	26	33	42	46	13	13
4	38	45	56	60	8.4	8.3
6	49	57	70	76	5.6	5.6
10	68	78	94	102	3.4	3.3
16	91	105	121	135	2.2	2.1
25	115	136	157	175	1.45	1.37

Electrical characteristics of copper cables

Nominal section	Max. current in air, single-core	Max. current in air, multicore	Max. current when buried, single-core	Max. current when buried, multicore	Voltage drop in single-core	Voltage drop in multicore
mm ²	A	A	A	A	V/A km	V/A km
35	144	168	189	210	1.09	1.01
50	175	205	231	251	0.84	0.76
70	224	263	280	307	0.63	0.55
95	271	320	327	369	0.49	0.42
120	315	373	379	420	0.42	0.35
150	363	430	424	472	0.37	0.29
185	415	493	473	535	0.32	0.25
240	489	583	555	626	0.28	0.21
300	565	674	624	704	0.27	0.18

Electrical characteristics of aluminum cables

Nominal section	Max. current in air, single-core	Max. current in air, multicore	Max. current when buried, single-core	Max. current when buried, multicore	Voltage drop in single-core	Voltage drop in multicore
mm ²	A	A	A	A	V/A km	V/A km
25	1.26	98	128	136	2.29	2.21
35	157	123	153	163	1.7	1.62
50	191	149	180	194	1.29	1.21
70	2474	192	221	239	0.94	0.86
95	302	234	265	286	0.72	0.65
120	352	273	302	326	0.6	0.53
150	408	315	338	366	0.51	0.44
185	469	361	384	415	0.44	0.36
240	556	428	448	484	0.37	0.29
300	644	494	507	547	0.32	0.25

Note: 1) Ground temperature 25°C, ambient temperature 40°C, conductor temperature 90°C.

In air: flat arrangement, single multicore cable or simple arrangement of separated cables 1 diameter, perforated tray. In the ground: installation depth 0.7m, single multicore cable or simple arrangement of cables in contact. Ground resistivity 1 km/W. Three-phase balanced current.

2) Considered for three-phase systems, Power Factor = 0.8. For other installation conditions, apply correction factors. The maximum current values are approved by the Argentine Electrotechnical Association.

THE CHOSEN CABLE

SUFLEX

Halogen-free 1.1 kV

Underground power cables, made of copper or aluminum, with XLPE insulation and halogen-free LSOH sheath, fire propagation resistant, featuring low emissions of opaque smoke and reduced emissions of toxic, corrosive, and ecological gases.



Construction

The ERPLA Suflex LSOH cables are formed according to their section. The single-core cables range from 1.5 to 300 mm², and the multi-core ones go up to 35 mm², larger sizes are semi-rigid, whether made of copper or aluminum.

The LSOH used for the insulation complies with IRAM NM 247-1 standard, and phase identification is done using standardized colors. Upon request, they can be manufactured in other colors depending on the order quantity.

An extruded non-hygroscopic LSOH coating or tape is applied to the Insulated and wired

Phases, giving the assembly a circular shape. In cases requiring additional mechanical protection, a steel strip (for multi-core) or aluminum strip (for single-core) may be added helically over the filling.

ERPLA's Suflex cables are marked with ink indicating the product name, section, nominal voltage, country of origin, sequential number, and the ERPLA acronym.

The standard final sheath color is violet, but other colors can be requested.

Uses

ERPLA's LSOH Suflex Cables are suitable for all applications and fixed system installation conditions, whether outdoors, on cable trays, electrical ducts, or directly buried, in both wet and dry environments.

The normal service temperature is 90°C, while

the overload and short-circuit temperature can reach 130°C and 160°C, respectively.

They are mainly used in power systems, power distribution, feeding machinery and electrical equipment, control panels and lighting, substations, and power plants.

Single-core Flexible Formation - Cu

Nominal section	Wire diameter	Insulation thickness	Nominal sheath thickness	Cable ¹ outer diameter	Final Cable ¹ weight
mm ²	mm	mm	mm	mm	Kg/Km
1.50	0.26	0.7	1.40	6.2	56
2.50	0.26	0.70	1.40	6.6	64
4.00	0.26/0.31	1.70	1.40	7.3	82
6.00	0.26/0.31	1.70	1.40	7.9	108
10.00	0.40	1.70	1.40	8.6	143
16.00	0.40	1.70	1.40	9.7	206
25.00	0.40	0.9	1.40	12.4	293
35.00	0.40	0.90	1.40	15.3	389
50.00	0.40	1.0	1.40	16.5	556
70.00	0.40	1.10	1.40	18.2	740
95.00	0.40	1.10	1.50	20	976
120.00	0.40	1.20	1.50	22.5	1190
150.00	0.40	1.40	1.60	24.6	1503
185.00	0.40	1.60	1.70	27.85	1810
240.00	0.40	1.70	1.80	28.9	2464
300.00	0.40	1.80	1.90	30.5	2950

¹ Approximate values.

Insulation colors

N° de Phases	Light Blue	Brown	Red	Black	Green yellow	Purple
1		•				
2	•	•				
3		•	•	•		
4	•	•	•	•		
5	•	•	•	•	•	
Sheath						•

IRAM CERTIFICATIONS



Construction Standards
IRAM 2178-1 / IEC 60502-1
Conductor Standards
IRAM NM 280 / IEC 60228

THE CHOSEN CABLE

Multicore - Flexible Formation - Cu

Nominal section	Wire diameter	Insulation thickness	Nominal sheath thickness	Cable ¹ outer diameter	Final Cable ¹ weight
mm ²	mm	mm	mm	mm	Kg/Km
2x1.50	0.26	0.7	1.80	9.1	115
2x2.50	0.26	0.7	1.80	10	147
2x4.00	0.26/0.31	0.7	1.80	12	215
2x6.00	0.26/0.31	0.7	1.80	13	274
2x10.00	0.40	0.7	1.80	14.9	367
2x16.00	0.40	0.7	1.80	20.5	696
2x25.00	0.40	0.9	1.80	23.5	959
2x35.00	0.40	0.9	1.80	26	1225
3x1.50	0.26	0.7	1.80	9.6	135
3x2.50	0.26	0.7	1.80	10.6	176
3x4.00	0.26/0.31	0.7	1.80	12.6	260
3x6	0.26/0.31	0.7	1.80	13.8	335
3x10	0.40	0.7	1.80	15.8	483
3x16	0.40	0.7	1.80	21.5	851
3x25	0.40	0.9	1.80	24.8	1186
3x35	0.40	0.9	1.80	27.3	1535
4x1.5	0.26	0.7	1.80	10.5	161
4x2.5	0.26	0.7	1.80	11.5	212
4x4	0.26/0.31	0.7	1.80	13.8	316
4x6	0.26/0.31	0.7	1.80	15.1	411
4x10	0.40	0.7	1.80	17.3	599
4x16	0.40	0.7	1.80	23.4	1038
3x25+16	0.40	0.90/0.70	1.80	26.2	1252
3x35+16	0.40	0.90/0.70	1.80	28.3	1572
5x1.5	0.26	0.7	1.80	11.4	194
5x2.5	0.26	0.7	1.80	12.6	258
5x4	0.26/0.31	0.7	1.80	15.1	385
5x6	0.26/0.31	0.7	1.80	16.6	505
5x10	0.40	0.7	1.80	19.1	740
5x16	0.40	0.7	1.80	25.4	1259

¹ Approximate values.

Multicore - Semi-Rigid Formation - Cu

Nominal section	Sector height *	Insulation thickness	Nominal sheath thickness	Cable outer diameter ¹	Final cable weight (Cu) ¹	Final cable weight (Al) ¹
mm ²	mm	mm	mm	mm	Kg/Km	Kg/Km
3x50	-	1.0	1.80	25	1623	933
3x70	-	1.10	1.9	29	2299	1224
3x95	-	1.1	2	33	3017	1586
3x120	-	1.25	2.1	35	3810	1908
3x150	-	1.5	2.3	39	4687	2302
3x185	-	1.70	2.5	42	5826	2477
3x240	-	1.80	2.7	46	7766	3199
3x300	-	1.90	2.9	51	9398	3828
3x25+16	-	1.2/1.0	1.8	26	1200	740
3x35+16	-	1.2/1.0	1.8	28	1500	860
3x50+25	-	1.0/0.9	1.9	27	1900	843
3x70+35	-	1.1/0.9	2	31	2660	1102
3x95+50	-	1.1/1.0	2.2	35	3524	1442
3x120+70	-	1.2/1.1	2.3	39	4545	1840
3x150+70	-	1.50/1.15	2.50	41	5465	2346
3x185+95	-	1.70/1.25	2.70	45	6814	2882
3x240+120	-	1.80/1.50	2.90	51	9023	3718
3x300+150	-	1.90/1.70	3.10	56	10930	4460

^s Compact sector rope. * Values separated by slashes correspond to phase and neutral, respectively.

¹ Approximate values.

Electrical characteristics of copper cables

Nominal section	Admissible current, single-core air cables	Admissible current, multi-core air cables	Admissible current, single-core buried cables	Admissible current, multi-core buried cables	Voltage drop, single-core cables	Voltage drop, multi-core cables
mm ²	A	A	A	A	V/A km	V/A km
4	38	45	56	60	8.4	8.3
6	49	57	70	76	5.6	5.6
10	68	78	94	102	3.4	3.3
16	91	105	121	135	2.2	2.1
25	115	136	157	175	1.45	1.37
35	144	168	189	210	1.09	1.01
50	175	205	231	251	0.84	0.76

THE CHOSEN CABLE

Nominal section	Admissible current for single-core aerial cables	Admissible current for multi-core aerial cables	Admissible current for single-core buried cables	Admissible current for multi-core buried cables	Voltage drop for single-core cables	Voltage drop for multi-core cables
mm ²	A	A	A	A	V/A km	V/A km
70	224	263	280	307	0.63	0.55
95	271	320	327	369	0.49	0.42
120	315	373	379	420	0.42	0.35
150	363	430	424	472	0.37	0.29
185	415	493	473	535	0.32	0.25
240	489	583	555	626	0.28	0.21
300	565	674	624	704	0.27	0.18

Características eléctricas cables de aluminio

Nominal section	Admissible current for single-core aerial cables	Admissible current for multi-core aerial cables	Admissible current for single-core buried cables	Admissible current for multi-core buried cables	Voltage drop for single-core cables	Voltage drop for multi-core cables
mm ²	A	A	A	A	V/A km	V/A km
25	126	98	128	136	2.29	2.21
35	157	123	153	163	1.7	1.62
50	191	149	180	194	1.29	1.21
70	2474	192	221	239	0.94	0.86
95	302	234	265	286	0.72	0.65
120	352	273	302	326	0.6	0.53
150	408	315	338	366	0.51	0.44
185	469	361	384	415	0.44	0.36
240	556	428	448	484	0.37	0.29
300	644	494	507	547	0.32	0.25

Note: 1) Ground temperature 25°C, ambient temperature 40°C, conductor temperature 90°C.

In air: flat arrangement, single multi-core cable or single three-core cables separated by 1 diameter, perforated tray.

In ground: installation depth 0.7m, single multi-core cable or single three-core cables in contact. Ground resistivity 1 km/W.

Three-phase current in balanced circuit.

2) Considered for three-phase systems, Power factor = 0.8. For other installation conditions, apply correction factors. Admissible current values are approved by the Argentine Electrotechnical Association.



THE CHOSEN CABLE

The Company

ERPLA is a national company that has been working in the electrical conductors market since 1969, supplying its products to the entire market throughout the country.

OUR VISION

To be the reference company in the electrical market, providing innovative solutions and services in electrical conduction, with exceptional quality.

OUR MISSION

To attend to the needs of the market, improving the quality of life of our society.



ERPLA currently operates in the local and regional low voltage cable market, supplying certified and high quality products for the following applications:

APPLICATIONS

BARE MEDIUM AND HIGH VOLTAGE OVERHEAD LINES

Cuperflex VC45
Aluflex VC79
Midtensor

MOBILE INSTALLATIONS

Talflex VC50
Bipolo VC54
Planoflex VC52

CONCENTRIC TELEPHONY

GAD

OVERHEAD LINES

Prensal Distribución VC80
Prensal Acometida VC30
Central Flex Al VC93
Central Flex Cu VC32

LOW VOLTAGE POWER

Suflex PVC VC625
Suflex XLPE VC725
Suflex LSOH VC635

PROTECTED OVERHEAD LINES

Alprotec

RENEWABLE ENERGY

Solarflex

CONTROL AND COMMAND

Suflex Comando
Talflex ComandoVC51

FIXED INSTALLATIONS

Uniflex VC39
Vidaflex VC45



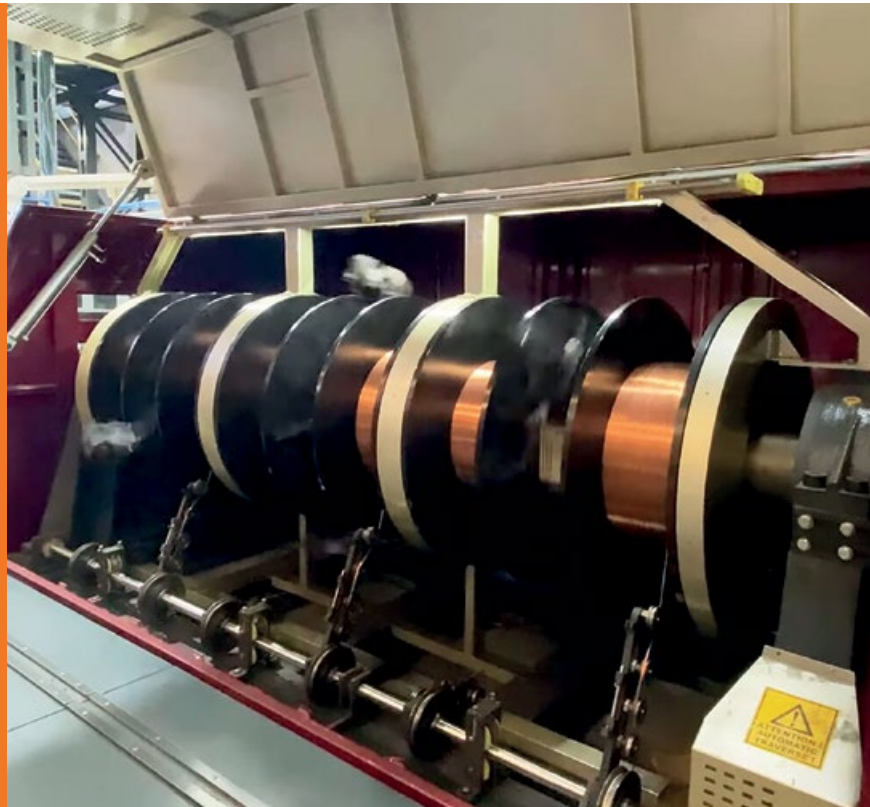
“Today, the company is exporting aluminum and copper cables to various Latin American countries.”

The permanent technological and productive changes that we carry out as a business policy, allow us to update and compete both locally and internationally.

In this way we maintain a high quality standard in our products, all of which are certified by the Argentine Institute of Standardization and Certification (IRAM).

In ERPLA Industries we believe that the most important thing is to meet the needs of our customers. Focusing on the continuous improvement of the product and our company.

Thanks to its development team and its exhaustive research on various materials, ERPLA achieves continuous improvement and constant updating of its products, thereby anticipating the needs of the market.



GESTION DE LA CALIDAD

RI-9000-0000499



GESTION AMBIENTAL

RI-14000-0029



ERPLA Industries has a Quality and Environmental Management System certified in accordance with IRAM-ISO 9001:2015.



Rotary phone lines

5411 4761-1111 | 5411 5438-1300

erpla@industriaserpla.com.ar

www.industriaserpla.com.ar

Antonio Beruti 1811/51, Florida West
(B1604BNS), Buenos Aires.

