

YDYprofi 450/750V CPR E

Low voltage PVC power cables



Round power cables designed for fixed applications especially for indoors in air, under plaster and in conduits. With the highly visible color stripes on the outer sheath, the end user can easily identify the cross-section of the cable and the number of cores inside from far away, resulting in faster installation and easier stock handling. In case of outdoor installations the cable has to be laid in cable ducts protected from UV radiation. Installation of the product should only be carried out by personnel trained and qualified for electrical works. The product is designed according to recognized standards. Applicable rules of installation must be applied at all times.

STANDARDS AND CERTIFICATIONS

RoHS



PN-E-90068

EN 60228

EN 50363-3

EN 50363-4-1

EN 50575

EN/IEC 60332-1-2

General

Conductors of insulated cables

Compound

Compound

Fire performance

Test for vertical flame propagation for a single insulated wire or cable

CABLE DESIGN

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Polyvinyl chloride (PVC)
Material outer sheath	Polyvinyl chloride (PVC)

ELECTRICAL AND THERMAL PARAMETERS

Nominal voltage U ₀ [V]	450
Nominal voltage U [V]	750
Test voltage [kV]	2.5
Rated voltage U ₀ /U (U _m)	450/750 V
Max. conductor temperature [°C]	70
Ambient temperature fix installation (min)	-40
Ambient temperature fix installation (max)	70
Ambient temperature flexible installation (min)	-5
Ambient temperature flexible installation (max)	70

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CHEMICAL PROPERTIES

Silicon free	Yes
Lead free	Yes
Flame retardant	In accordance with EN/IEC 60332-1-2

INSTALLATION CHARACTERISTICS

Bending radius (rule)	6 - 12 x D
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SUSTAINABILITY COMMITMENT

Our commitment to a low-carbon future remains unwavering as we strive to create sustainable solutions while upholding quality standards. We prioritize sustainability and environmental protection in our daily operations, collaborating with local communities to ensure workplace safety and safeguard the areas we operate in.

Sustainability and environmental responsibility is evident also in our **packaging** solutions across the CEE region. We use fully recyclable drum cover foils to minimize environmental impact. Our packaging for rings is made from 30% recycled materials, supporting a circular economy. Additionally, our boxes are made from recyclable, environment-friendly cardboard, promoting eco-conscious choices. By choosing Prysmian, you are not only selecting high-quality products but also contributing to a greener future.

Check for more details about our sustainability commitment here: [Sustainability report and responsibility](#).



CABLE PROPERTIES

Basic construction	Type	SAP code	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]	Short circuit current conductor [Isec] [kA]	DOP number
2x1,5		20506645	8.5	111	12.1	0.21	1001524
2x2,5		20506676	9	142	7.41	0.36	1001524
3x1,5 zo	-ZO	20506648	8.7	130	12.1	0.21	1001524
3x1,5		20506678	8.7	130	12.1	0.21	1001524
3x2,5 zo	-ZO	20506691	9.5	169	7.41	0.36	1001524
4x1,5 zo	-ZO	20506702	9.5	155	12.1	0.21	1001524
4x2,5 zo	-ZO	20506694	10.4	204	7.41	0.36	1001524
5x1,5 zo	-ZO	20506705	10.4	184	12.1	0.21	1001524
5x2,5 zo	-ZO	20506697	11.4	243	7.41	0.36	1001524

COLOR MARKING

	Basic Construction	Color marking
1	2x1,5	Brown
2	2x2,5	Rose
3	3x1,5	Red
4	3x1,5 zo	Blue
5	3x2,5 zo	Green
6	3x2,5 zo	Grey
7	4x2,5 zo	Orange
8	5x1,5 zo	Violet
9	5x2,5 zo	Yellow

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