

Plymouth

Plymouth Rubber Europa, S.A.U.

Plywrap®

Low Voltage Splice Kit



Description

- Straight splice for low voltage networks up to 0.6/1.0 (1.2) kV for single or multicore cables.
- IP68 protection for buried, underground galleries and cable tray installations.
- UV protection in overhead applications.
- Easy and quick cold application technic, heat is not required.
- The assembly, once applied, maintains the same flexibility as the original cable.
- Excellent shelf life of the product in stock (60 months) when stored in the original packaging, placed in horizontal position under cover and temperature between 5°C and 35 °C (41°F and 95°F).
- Meets UNE-EN 50393 (Test methods and requirements for accessories for use on distribution cables of rated voltage 0,6/1,0 (1,2) kV).
- Meets 2000/53/EC and RoHS 2 2011/65/EU directives.
- Does not contain lead, cadmium, mercury, chromium (VI), polybrominated biphenyls (PBB), or polybrominated diphenyl ethers (PBDE), butyl benzyl phthalate (BBP), di (2-ethylhexil phthalate (DEHP), dibutyl phthalate (DBP) or diisobutyl phthalate (DIBP).
- TSCA Compliance (Toxic Substances Control Act.)

Kit Contents

- 1 hose sealing pad
- 6 sealing pads for phase insulation
- 1 sandpaper strip
- 1 roll of 0.18 mm (7 mil) Professional Vinyl Electrical tape
- 1 technical instructions manual for assembly

Main components

- Reinforced mastic pads
- Professional Vinyl tape

Recommended uses

- Public lightning
- Utilities low voltage networks
- Pumping stations, submersible pumps
- Temporary applications

Reinforced Mastic Pad Technical Data

July 2023

Description and Features

- Self -fusing
- UV and weather resistant
- Strong adhesion to metal, cable insulation and jackets
- Excellent corrosion resistance
- Superior dielectric strength
- Long lasting cathodic protection

Materials	Backing PVC	Adhesive Mastic	Color Black	Sizes See chart 1	
Technical Properties	Characteristic		Typical Values		Test Method
PVC Backing	Thickness		0.160 mm	(6,3 mil)	ASTM D 1000
	Tensile Strength		40 N/cm	(23 lb./in)	ASTM D 1000
	Elongation		240%		ASTM D 1000
Mastic	Thickness		See chart 1		ASTM D 1000
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	Adhesion to Steel ¹		22 N/cm	(201 oz./in)	ASTM D 1000
Compound (PVC Backing + Mastic)	Adhesion to PE ¹		22 N/cm	(201 oz./in)	ASTM D 1000
	Operating Temperature				
	Continuous		90°C	(194°F)	ASTM D 4325
	Emergency Overload		130°C	(266°F)	ASTM D 4325
	Water Absorption		<0,35 %		ASTM D 570
	Copper Corrosion (visual)		None		ASTM D 69
	Ozone Resistance (visual)		Pass		ASTM D 4325
	UV Resistance (visual)				
	50°C x 4 h @95%HR + 70°C x 20h (1000h)		Pass		ISO 11507
	18 min. Distillated water + 102 min. dry @40°C (750 h)		Pass		ASTM D 4325
	Dielectric Strength		13 kV/mm	(330 V/mil)	ASTM D 149
	Volume Resistivity		>1x10 ¹³ Ω		ASTM D 257
¹ Adhesion higher than indicated due to the high adhesion to the substrate					

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Dimensions					
Outer pad (1 pc)	Thickness		Inner pad (6 pcs)	Thickness	
	Backer	Mastic		Backer	Mastic
300 mm x 100 mm (11 3/4 x 3 15/16) in	0,16 mm (6,3 mil)	1,14 mm (45 mil)	50 mm x 40mm (2 x 1 9/16) in	0,16 mm (6,3 mil)	1,14 mm (45 mil)
350 mm x 100 mm (13 3/4 x 3 15/16) in	0,16 mm (6,3 mil)	1,84 (72 mil)	50 mm x 40mm (2 x 1 9/16) in	0,16 mm (6,3 mil)	1,14 mm (45 mil)
400 mm x 150 mm (15 3/4 x 5 15/16) in	0,16 mm (6,3 mil)	2,84 (112 mil)	60 mm x 70 mm (2 3/8 x 2 3/4) in	0,16 mm (6,3 mil)	1,14 mm (45 mil)
500 mm x 200 mm (19 3/4 x 7 3/4) in	0,16 mm (6,3 mil)	2,84 (112 mil)	60 mm x 70 mm (2 3/8 x 2 3/4) in	0,16 mm (6,3 mil)	1,14 mm (45 mil)

Chart 1.

Professional Vinyl Tape Technical Data

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Description

- Meets UL 510 (UL listed), CSA C 22.2 no. 197 certified.
- Meets 2000/53/EC and RoHS 2 2011/65/EU directives. Vinyl **Tape** does not contain lead, cadmium, mercury, chromium (VI), polybrominated biphenyls (PBB), or polybrominated diphenyl ethers (PBDE), butyl benzyl phthalate (BBP), di (2-ethylhexil phthalate (DEHP), dibutyl phthalate (DBP) or diisobutyl phthalate (DIBP).

Materials

Backing

PVC

Adhesive

Rubber based

Colour

Black

Size

19 mm x 10 m (0.75 in. x 66 ft.)

Technical Properties

Characteristic

Typical Values

Test Method

Thickness	0.18 mm (7.0 mil)		ASTM D 1000
Breaking strength	43 N/cm (24.5 lb/in)		ASTM D 1000
Elongation at break	260 %		ASTM D 1000
Adhesion to steel (N/cm)	3.4 (31 oz/in)		ASTM D 1000
Adhesion to backing (N/cm)	3.4 (31 oz/in)		ASTM D 1000
Flammability	0 seconds Flame Retardant		ASTM D 1000
Temperature rating	Min -10°C / max 105°C Min -10°C / max 80°C	Min 14°F / max 221°F Min 14°F / max 176°F	CSA C22.2 no. 197 UL-510
Dielectric Strength	45 kV/mm	1143 V/mil	UL 510/ASTM D 1000
Insulation Resistance	>1x10 ¹² Ω		

Information provided is for reference only. Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use

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