

## RS PRO Cable joints ZRM

RS Stock No.: 0434574

### Features

- Heat-Shrink Cable joints
- Halogen Free
- Designed for 4-core cable
- Simple and easy to use

0434575

0434577

0434578

0434580

0434581

0434583

0434584

0434586



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

## Product Description

*Low voltage heat-shrink straight halogen free cable joint suitable for connecting universal unarmoured plastic manufactured from PVC, PE and VPE. Good corrosion protection properties with excellent abrasion and weathering resistance. High-quality thermoplastic adhesive.*

## General Specifications

Material:	Crosslinked polyethylene
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## Mechanical Specifications

Assembly type:	Joint designed for connecting cables
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## Electrical Specifications

Recommended up to:	1 kV
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## Protection Category

Cable joints	Straight Joint Type
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## Approvals

Declarations	MFR Declaration of Conformity
Hazardous Area Certification	ATEX / IECEx
Standards Met	

## Similar Products

Stock No.	Brand	Product Name	Number of cores	Insulation type
<b>0434574</b>	RS PRO	ZRM 1,5 - 10	3, 4 or 5	Plastic
<b>0434575</b>	RS PRO	ZRM-1/JLP-CX4 16-25	4	Plastic
<b>0434577</b>	RS PRO	ZRM-1/JLP-CX4 16-25/700	4	Plastic
<b>0434578</b>	RS PRO	ZRM-2/JLP-CX4 35-70	4	Plastic
<b>0434580</b>	RS PRO	ZRM-2/JLP-CX4 35-70/800	4	Plastic
<b>0434581</b>	RS PRO	ZRM-3/JLP-CX4 95	4	Plastic
<b>0434583</b>	RS PRO	ZRM-4/JLP-CX4 120-150	4	Plastic
<b>0434584</b>	RS PRO	ZRM-4/JLP-CX4 120-150/900	4	Plastic
<b>0434586</b>	RS PRO	ZRM-5/JLP-CX4 185-300	4	Plastic

## Instruction of use

- ☞ The installation of the set should only be performed by persons with appropriate qualifications,
- ☞ The manufacturer does not accept any liability for failures resulting from incorrect installation,
- ☞ The contents of the set and the installation procedure may have been changed in comparison to the previous versions of the set,
- ☞ After their service life has expired, the used materials and complete products shall be utilised by the user using his own means,
- ☞ The set shall be installed within 24 months from the production date,
- ☞ The sets shall be stored in a dry location, in shade, away from open fire and protected against sunlight and high temperature.

### BEFORE ASSEMBLY:

- ☞ Check if the given set allows for the completion of the planned works,
- ☞ Check the completeness of the assembly set,
- ☞ Prepare the work station by securing it against the changing weather conditions, in case of indoor works provide the required ventilation level,
- ☞ Thoroughly clean the cables of dirt and dust,
- ☞ **Thoroughly** read the installation instructions **every time!!!**

### DURING ASSEMBLY:

- ☞ Always follow the order of actions described in the installation instructions,
- ☞ Perform the shrinking using a propane-butane burner or an electric heater,
- ☞ The propane-butane burner should be adjusted to obtain a gentle yellow flame,
- ☞ Set the electric heater to  $+120^{\circ}\text{C} \div +200^{\circ}\text{C}$ ,
- ☞ Hold the heat source at an angle of  $45^{\circ}$  in relation to the shrank element (in order to heat consecutive sections of the shrank material),
- ☞ During shrinking observe the heated element - do not overheat the material,
- ☞ Before continuing to shrink in the axial direction provide complete shrinkage around the circumference,
- ☞ After shrinking the heat-shrink materials should be smooth and adhere to the entire surface of elements on which they are used,
- ☞ After cooling down clean the surface of the heat-shrink material in order to remove the conductive particles, which are released during the shrinking,

- Components of the assembly set required to install a straight joint are listed in table 1.

Table 1

ZRM/JLP-CX4/700 (900)				nr kat. 1240.4	
Set type	Core cross-section	Pipe for reconstruction of insulation		Pipe for reconstruction of sheath	
	mm <sup>2</sup>	RPKH1	szt.	RPKH1/RDK	szt.
ZRM-1/JLP-CX4/700 16+25	16+25	17/3 × 200	4	40/16 × 700	1
ZRM-2/JLP-CX4/700 35+70	35+70	22/6 × 200	4	63/19 × 700	1
ZRM-3/JLP-CX4/700 95	95	25/10 × 200	4	76/18 × 700	1
ZRM-4/JLP-CX4/900 120+150	120+150	35/12 × 250	4	95/25 × 900	1
ZRM-5/JLP-CX4/900 185+240	185+240	40/16 × 250	4	105/32 × 900	1

The sets contain auxiliary elements such as PVC tape, cleaning tissue, abrasive cloth.

- Preparation of cables for assembly.

- 2.1. Remove the cable sheaths in accordance with Table 2 and remove insulation from terminal sections of connected cores as specified in Table 3 - Figure 1.

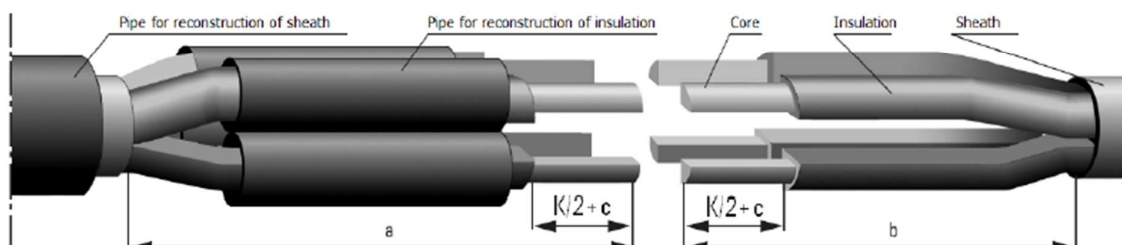


Fig. 1

Table 2

Core cross-section	a	b
16 ÷ 95	300	200
120 ÷ 240	400	250

Table 3

K - length of the connector

Material	c
Al	10
Cu	5

- 2.2. Form the terminal sections of sector shaped cores using a press. Remove surface unevenness using a file and clean.

- 2.3. Place a pipe for restoring the sheath over one end of the cable and slide the longer ends of the pipe for restoring insulation - Fig. 1.

3. Installation of the straight joint.

- 3.1. Place connectors on each of the longer cores (at the pressed location) and press (pressing 1 ÷ 4) - Fig. 2.

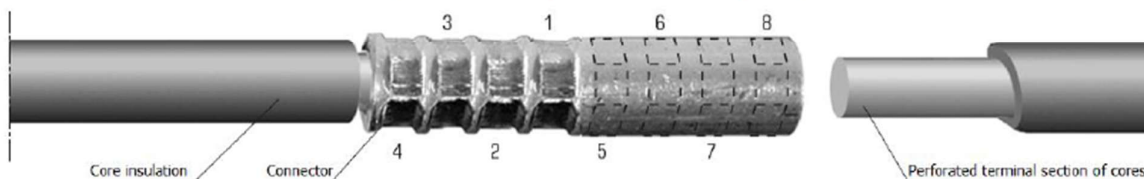


Fig. 2

- 3.2. Press the remaining cores - Fig. 2 (pressing 5 ÷ 8).

Remove unevenness from the connectors. Degrease the core insulation and connectors.

Keep the colours if the connected cores

3.3. Heat the connection to 50°C using a propane-butane burner or an electric heater,

*This will allow for better shrinkage of pipes over the cores.*

3.4. Symmetrically slide the pipes for restoring insulation over the core connections - Fig. 3. Start shrinking the pipes from their centre and move towards their ends. The shrinking is accompanied by the outflow of glue, which seals the connection - Fig. 4.

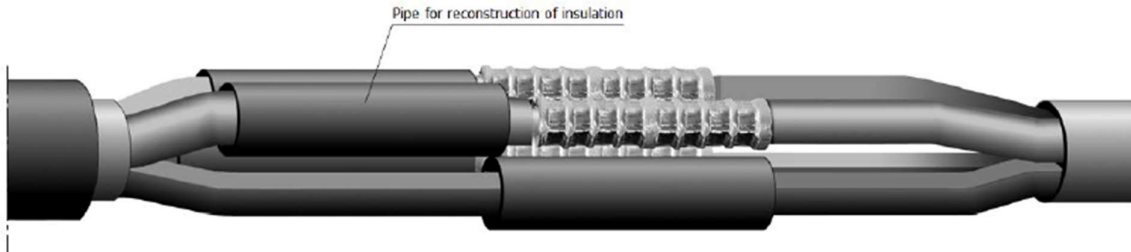


Fig 3

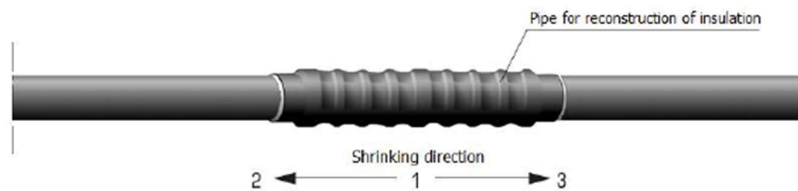


Fig 4

3.5. After the pipes cool down, form cores by pressing them together with a few wraps of PVC tape - Fig. 5.

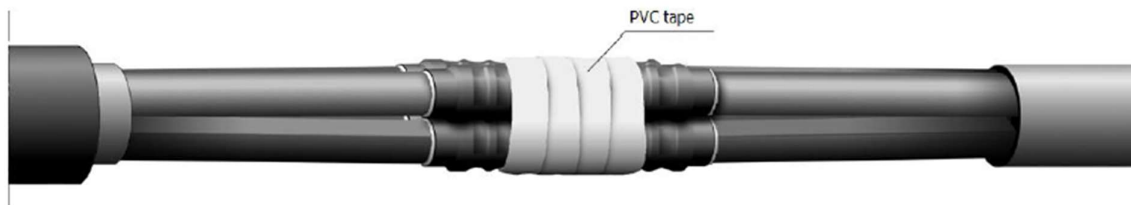


Fig. 5.

3.6. Sand the sheathe of polymer cables 10 cm from the cutting location using abrasive cloth.

Degrease the surface of the shrank pipes, core insulation and the cable sheaths.

*Doing so will provide better tightness of the straight joint.*

3.7. Slide the pipe for restoring the sheath so that it overlaps the sheaths of both connected cables over the same length and shrink - Fig. 6.

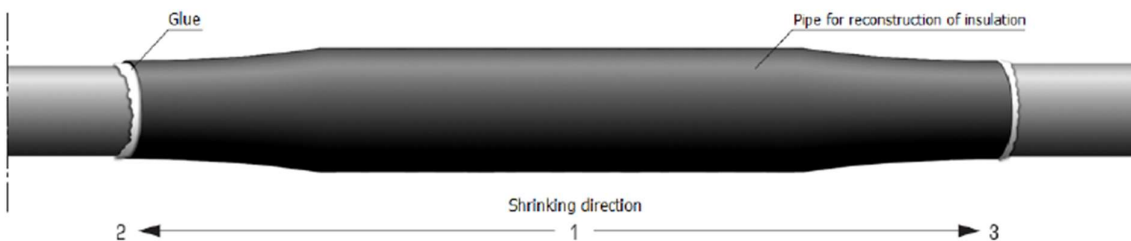


Fig. 6.

4. The assembly of the straight joint is now complete.

5. Thank you for selecting our installation kits.