

# CSJ - Cold-shrinkable single-core straight joint up to 36 kV

## Contact

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## DESCRIPTION

### Application

The cold-shrinkable straight joint type CSJ is suitable for jointing polymeric insulated medium voltage cables with extruded easy strip conductive screen or bonded extruded conductive screen. With regards to the mechanical conductor connector, supplied in the joint kit, jointing of cables with different conductor sizes or conductor materials becomes fast and easy.

### Technical characteristics

All joint bodies are tested for AC withstand prior to leaving the factory.

### Specifications and standards

The cold-shrinkable straight joint CSJ meets the requirements of CENELEC HD 629.1.



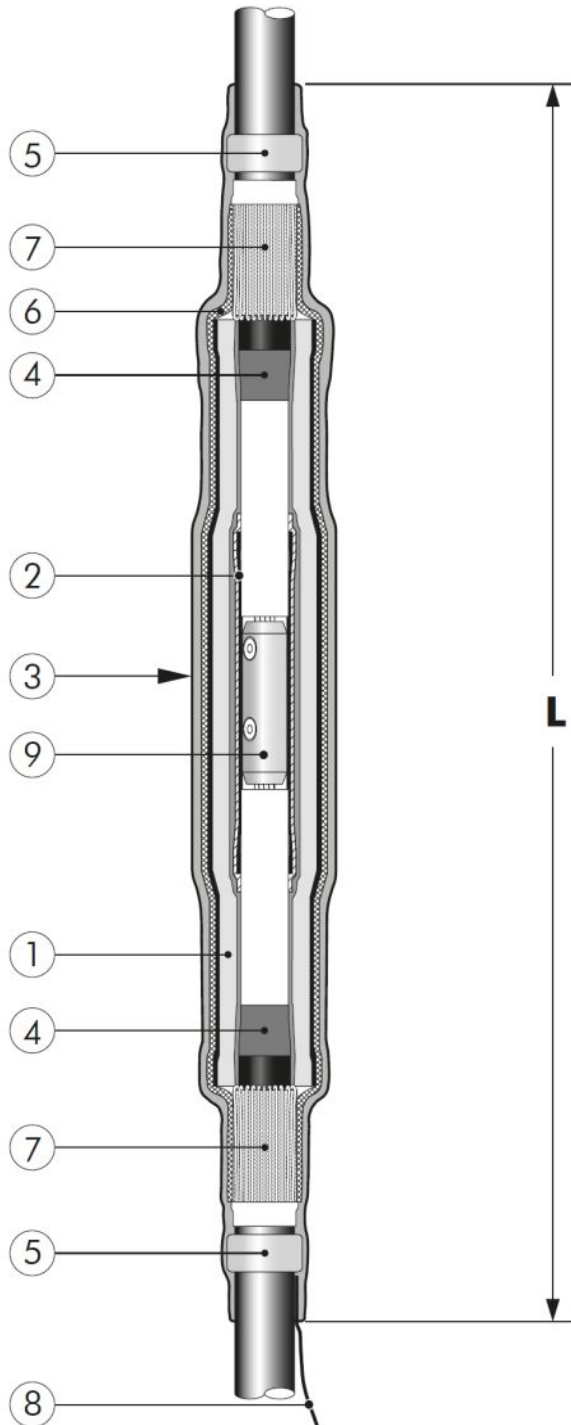
## STANDARDS

**International**  
CENELEC HD 629.1

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## DRAWING CSJ



All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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## DESIGN CSJ

1. Extruded triple layer EPDM rubber body
2. Two layer plate with a semi- conductive and a field control mastic layer
3. Overall protective EPDM cover
4. Field control mastic
5. Water sealing mastic
6. Copper braid
7. Self-adhesive copper tape
8. Traceability tag
9. Mechanical conductor connector

## TECHNICAL DATA CSJ

Joint type	Nominal voltage $U_0 / U$ (kV)	Conductor cross-section (mm <sup>2</sup> )		Dia. over core insulation (mm)		Max. dia. over outer sheath (mm)	L (mm)
		min.	max.	min.	max.		
24CSJ-2 Gr. 1	6/10	18	23	95	150	46	ca. 750
24CSJ-2 Gr. 2	6/10	23	33	150	240/(300) <sup>1)</sup>	46	ca. 750
24CSJ-2 Gr. 1	12/20	18	23	35	70	46	ca. 750
24CSJ-2 Gr. 2	12/20	23	33	95	240/(300) <sup>1)</sup>	46	ca. 750
24CSJ - 3	12/20	30	45	240	630	57	ca. 850
36CSJ-2	18/30	23	36	50	240	48	ca. 750
36CSJ-3	18/30	30	50	185	630	57	ca. 850

<sup>1)</sup> Conductor sizes in brackets available with compression joint.

## KIT CONTENTS CSJ

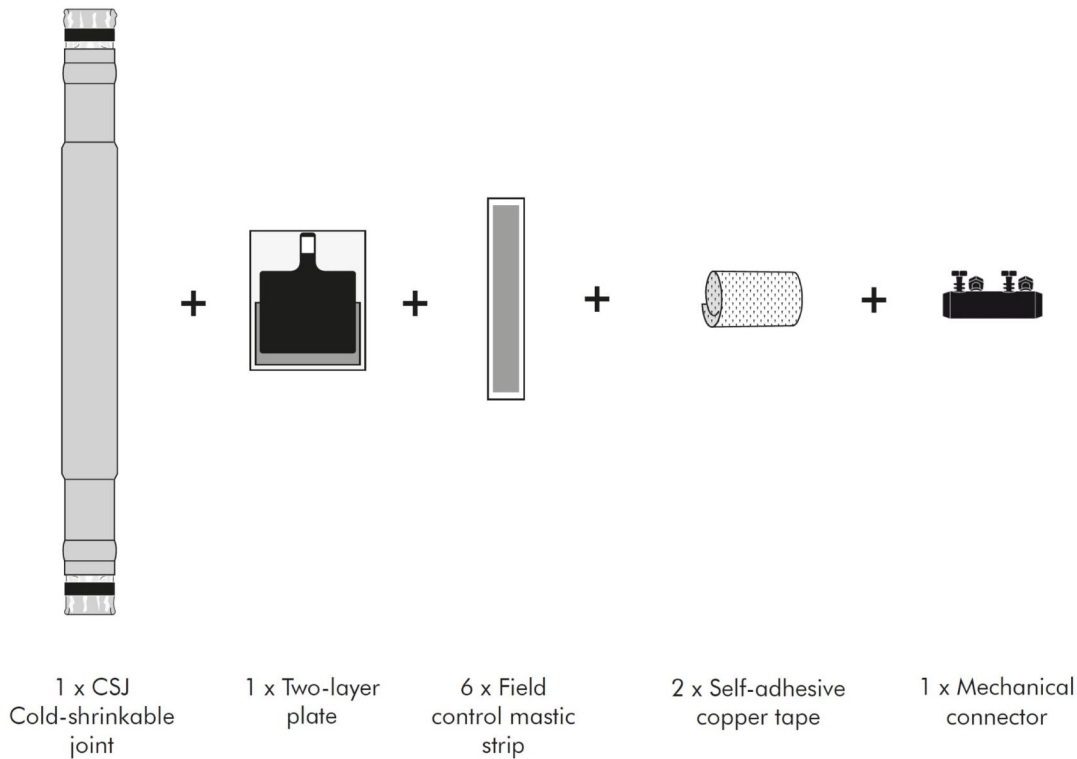
The complete joint kit comprises the following components.

- The kit also comprises:
- + installation instructions
  - + silicone grease
  - + white pen
  - + gloves
  - + assembly gauge
  - + adhesive tape
  - + rubber rings
  - + assembly incidentals

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## KIT CSJ



## SELECTION TABLE CSJ

Joint type	Nominal voltage $U_0/U$ (kV)	Conductor cross-section (mm <sup>2</sup> )												Dia. over core insulation (mm)	Max. dia. over outer sheath (mm)			
		35	50	70	95	120	150	185	240	300	400	500	630			800	1000	
24CSJ-2 Gr. 1	6/10				53752 <sup>2)</sup>											18-23	46	
24CSJ-2 Gr. 2	6/10					59088										23-33	46	
24CSJ-2 Gr. 1	12/20	59087														18-23	46	
24CSJ-2 Gr. 2	12/20				48136 <sup>3)</sup>											23-33	46	
24CSJ-3	12/20									52650 <sup>3)</sup>						30-54	57	
24CSJ-3	12/20										51800 <sup>3)</sup>						30-54	57
36CSJ-2 Gr. 2	18/30			53738 <sup>2)</sup>												23-36	48	
36CSJ-2 Gr. 2	18/30				53737											23-36	48	
36CSJ-3	18/30							57216								30-50	57	
36CSJ-3	18/30										57217 <sup>3)</sup>						30-50	57

<sup>2)</sup> Applicable for aluminum conductors up to 150 mm<sup>2</sup> and copper conductors up to 120 mm<sup>2</sup>.

<sup>3)</sup> Please consider the maximum outer cable diameter.

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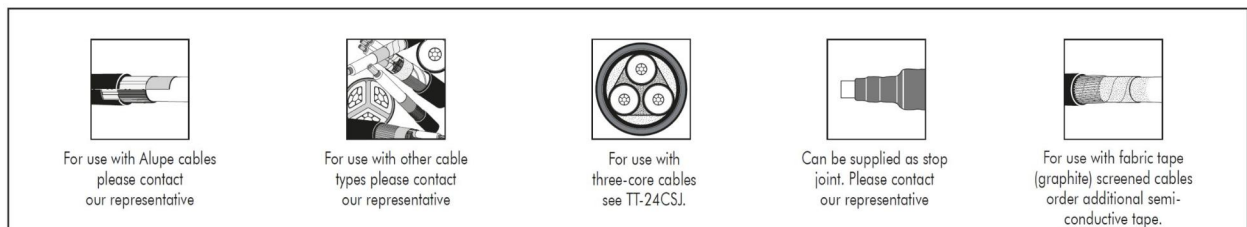
## ORDERING INSTRUCTIONS CSJ

Select the straight joint type corresponding to the cable type and dia. over core insulation.

### Order example:

Cold-shrinkable straight joint  
Nominal voltage 12/20 kV  
Conductor cross-section 95-240 mm<sup>2</sup>  
Dia. over core insulation 23-33 mm<sup>2</sup>  
Order number: 48136

## PICTOGRAMS CSJ



## TECHNICAL INSTRUCTIONS AND APPLICATION INFORMATION (ACCESSORIES)

The data given were determined diligently, but do not release our customers of the duty to carry out tests themselves in order to check the suitability of the products delivered by us for the intended use. We reserve the right to modify characteristic and performance data according to the present state of technology. Processing and use of the products cannot be controlled by us and are therefore exclusively in your field of responsibility.

Our products meet the VDE standards respectively correspond to DIN pages and IEC recommendations.

Attention: Before first design in please contact manufacturer.

The products, described in this catalogue, are designed for connection of bare energy cable conductors (Class 1 & 2) with description of round solid (RE), round stranded (RM), as well as sector solid (SE), sector stranded (SM) and round stranded compacted (RMV) for conductor temperatures up to 90 °C. All conductor filling materials like tapes, yarn, powder or similar need to be completely removed before the installation. A check on basis of the actual existing conductor dimensions by the user is indispensable. This applies also for the application of Class 6 conductors or other special conductor types.

Impact wrenches have to be approved by Nexans! Depending on different conductor material or conductor type, indicated values may differ from test values acc. to IEC 61238-1. The use of fine stranded conductors has to be approved by Nexans Power Accessories Germany GmbH.

Our responsibilities are only those listed in the latest edition of "General terms and conditions for the supply of products and services of the electrical and electronics industry". We can provide a copy on request.

Our products are mainly delivered in cartons. We only use package materials able to be recycled due to the latest packing system. Collapsible cardboard boxes are not taken back. Please try to order complete standard packages.

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