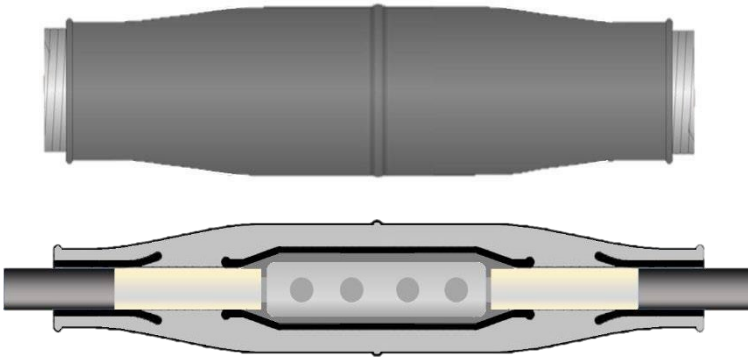
# RCSD 24 & RCSB 36

REPL range of Cold Shrink Joint Bodies are suitable for installations on medium voltage cables up to 36kV.

The Joint Body consists of a moulded silicon rubber body with integrated central Faraday Cage and geometric stress control at both ends, and a semi-conductive outer layer which reinstates the key layers of the cable being jointed.
The joint bodies are pre-expanded onto a spiral former providing a suitable diameter clearance to allow easy location over cables and connectors. Once correctly located the body in position, the body is shrunk down by simply pulling out the spiral tape former.



The Cold Shrink Joint bodies require no special tools or heat source for installation, they are ideal for areas where heat tools are not allowed or accessible.
A range of bodies to cover cables up to 36kv in single core, three core designs and trifurcating with either extruded or paper insulation.

- Tested to **CENELEC HD 629.1.S3**
- Quick and easy installation using no heat source or special tools
- One piece design with integrated central Faraday cage and screen stress control cones
- Short parking distance required means compact joint bay area
- Silicon Rubber material for excellent electrical insulation properties
- Suitable for a wide range of mechanical and compression cable connectors
- Long shelf life under normal storage conditions
- Kits for armoured and unarmoured type cables can be supplied
- Choice of outer protection materials

To complete the joint, the cable metallic screens are connected using an appropriate method. There is a range of options available for the outer protection such as cold shrink or heat shrink tubing's, or resin encapsulation using plastic shells and resin.

| Technical Details | | | | |
|---|---|---|---|---|
| **Voltage Class >** | **12kV** | **17.5kV** | **24kV** | **36kV** |
| **Cross Section Range ($mm^2$)** | 50 - 1000 | 50 - 1000 | 35 - 1200 | 50 - 1200 |
| **Cable Insulation Diameter (mm)** | 15 - 46 | 17 - 48 | 18 - 50 | 24 - 55 |
| **Voltage Rating $U_0/U$ (kV)**<br>**Um (kV)** | 6.35/11<br>12 | 8.7/15<br>17.5 | 12.7/22<br>24 | 19/33<br>36 |
| **Basic Impulse Level (BIL) kV** | 95 | 95 | 125 | 194 |
| **Partial Discharge at $2U_0$ (pC)** | <10 | <10 | <10 | <10 |
| **AC Voltage Withstand , 5 min (kV)** | >28.5 | >39 | >57 | >85.5 |
| **DC Voltage Withstand , 15min (kV)** | >38 | >52 | >76 | >114 |

Please see overleaf for details of the cold shrink body range options



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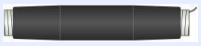
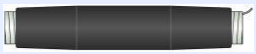
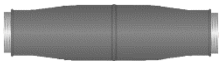
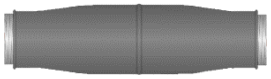
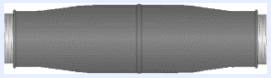
# Cold Shrink Cable Joint Bodies

DATASHEET

## Cold Shrink Joint Body Selection:

| Body Selection | Overall Length | Insulation Diameter Range | Minimum/ Maximum Connector Diameter | Maximum Connector Length | Maximum Cable Jacket Diameter | Typical Application Range *based on IEC Cable Design (mm²) | | | |
|---|---|---|---|---|---|---|---|---|---|
| Code | mm | ømm | ømm | mm | ømm | 12kV | 17.5kV | 24kV | 36kV |
| **RCSD24 4413-330**  | 330 | 17-24 | 17-30 | 100 | 34 | 70-150 | 50-120 | 25-95 | - |
| **RCSD24 5015-360**  | 360 | 20-30 | 20-36 | 130 | 40 | 120-300 | 95-300 | 70-240 | - |
| **RCSD24 6018-410**  | 410 | 24-36 | 24-42 | 170 | 46 | 240-500 | 185-400 | 150-400 | - |
| **RCSD24 7022-460**  | 460 | 29-42 | 29-52 | 200 | 54 | 400-800 | 300-630 | 240-630 | - |
| **RCSB 4013-330**  | 330 | 17-24 | 24-30 | 100 | 34 | 50-150 | 35-120 | 35-70 | - |
| **RCSB 5215-360**  | 360 | 19-32 | 28-38 | 126 | 46 | 95-300 | 70-300 | 70-240 | 50-150 |
| **RCSB 6018-400**  | 400 | 24-36 | 32-42 | 145 | 52 | 185-500 | 150-400 | 95-300 | 50-240 |
| **RCSB 7022-460**  | 460 | 30-42 | 34-55 | 200 | 58 | 400-800 | 300-630 | 185-400 | 150-400 |
| **RCSB 8028-500**  | 500 | 35-54 | 48-72 | 240 | 72 | 500-1000 | 500-1000 | 300-1000 | 240-1000 |
| **RCSB 11438-520**  | 520 | 47 -82 | 55 -75 | 240 | 95 | - | - | 1000-1200 | 800-1200 |





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