Euromold
a Nexans company

Medium voltage separable connectors and bushings
- Interface A -

Catalogue 2015
Euromold is the leading European specialised designer, manufacturer and distributor of prefabricated cable accessories for medium voltage energy distribution. Euromold provides a complete range of accessories for underground cables: premoulded EPDM rubber connectors for cables and epoxy bushings for transformers and switchgear, as well as a large range of cold-shrinkable terminations and joints from 12 to 42 kV. Euromold is also the manufacturer of electrical components for the high voltage accessories of the Nexans group.

ISO 9001 Certificate
Since 1992, Euromold’s commitment to quality is demonstrated by its ISO 9001 certification.

International standards
All our products meet the International standards like CENELEC HD 629.1, CENELEC EN 50180, IEC 60137, IEC 60502-4… or country specifications. Official certificates, CESI, KEMA, ATEX… prove the conformity of our products. Long duration tests of existing or new products are continuously performed in our test fields.

Laboratory accreditation
Since June 2000, Euromold’s independent ELAB laboratory obtained the BELAC accreditation no.144-TEST conform with the European standards for laboratories ISO 17025 for electrical testing of low and medium voltage cable accessories according to the international standards EN 50393, IEC 60502-4, IEC 61442 and HD 629.
Table of contents
158LR - elbow connector
152SR - straight connector
151SP - straight plug
156SA - surge arrester
180AR-1 /-2 /-3 and 180AR-1-G /-3-G - equipment bushings
250SFR-P - equipment bushing
180A-24P-O - in-air bushing
PITO-E - plug-in termination
Accessories
Bail restraints

Interface A1
Dimensions according to European CENELEC EN 50180 and 50181 (in mm).
Specifications and standards

The separable connector 158LR meets the requirements of CENELEC HD 629.1.

Application
Separable elbow connector designed to connect polymeric insulated cable to equipment (transformers, switchgear, motors...). Also connects cable to cable, using the appropriate mating part.

Design
Separable connector comprising:
1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer moulded between the insert and the jacket.
4. Type A - 250 A interface as described by CENELEC EN 50180 and 50181.
5. Conductor connector.
6. Voltage test point.
7. Earthing lead (-/G version only).

Technical characteristics
• The thick conductive EPDM jacket provides a total safe to touch screen which ensures safety for personnel.
• Each separable connector is tested for AC withstand and partial discharge prior to leaving the factory.

<table>
<thead>
<tr>
<th>Separable connector type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Conductor sizes (mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>min</td>
</tr>
<tr>
<td>158LR/G</td>
<td>12</td>
<td>250</td>
<td>16</td>
</tr>
<tr>
<td>158LR</td>
<td>12</td>
<td>250</td>
<td>70</td>
</tr>
<tr>
<td>K158LR/G</td>
<td>24</td>
<td>250</td>
<td>16</td>
</tr>
<tr>
<td>K158LR</td>
<td>24</td>
<td>250</td>
<td>25</td>
</tr>
</tbody>
</table>
Kit contents
The complete (K)158LR or (K)158LR/G elbow connector kit comprises the following components:

- Conductor contact 164LRC-X or 164LRMC-X
- Pin contact + hex key 154LRF
- Bail restraint 150BA-B1

The kit also comprises lubricant, wipers, installation instructions and crimp chart.

Ordering instructions
Select the part number which gives the best centring to the cable core insulation diameter and substitute X using table X, according to the conductor size and type.
Add a ‘K’ for use up to 24 kV.

Example:
The copper wire screened cable is 24 kV, 50 mm² stranded aluminium with a diameter over core insulation of 20.4 mm. Order a K158LR-FG-50(K)M-12-2+11TL elbow connector kit.

For an option with a bolted conductor contact, specify the ordering part number below.

Table W

<table>
<thead>
<tr>
<th>Ordering part number</th>
<th>Dia. over core insulation (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>min</td>
</tr>
<tr>
<td>158LR/G-11-X</td>
<td>12.6</td>
</tr>
<tr>
<td>158LR/G-13-X</td>
<td>14.6</td>
</tr>
<tr>
<td>158LR-FB-X+11TL</td>
<td>17.5</td>
</tr>
<tr>
<td>158LR-FG-X+11TL</td>
<td>18.4</td>
</tr>
<tr>
<td>158LR-GA-X+11TL</td>
<td>19.7</td>
</tr>
<tr>
<td>158LR-GAB-X+11TL</td>
<td>21.0</td>
</tr>
<tr>
<td>158LR-GH-X+11TL</td>
<td>23.6</td>
</tr>
</tbody>
</table>

Table X

<table>
<thead>
<tr>
<th>Conductor sizes (mm²)</th>
<th>Aluminium</th>
<th>Copper</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DIN hexagonal</td>
<td>Deep indent</td>
</tr>
<tr>
<td>16</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>25</td>
<td>25(K)M-12-2</td>
<td>25KM-12-1</td>
</tr>
<tr>
<td>35</td>
<td>35(K)M-12-2</td>
<td>35KM-12-1</td>
</tr>
<tr>
<td>50</td>
<td>50(K)M-12-2</td>
<td>50KM-12-1*</td>
</tr>
<tr>
<td>70</td>
<td>70(K)M-12-2</td>
<td>70(K)M-12-1*</td>
</tr>
<tr>
<td>95</td>
<td>95(K)M-12-2*</td>
<td>95(K)M-12-1*</td>
</tr>
</tbody>
</table>

The 158LR-FB is not compatible with these conductor contacts.

Table

<table>
<thead>
<tr>
<th>Ordering part number</th>
<th>Dia. over core insulation (mm)</th>
<th>Conductor sizes (mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>158LR/G-13-25.95-14-5</td>
<td>14.6 - 22.7</td>
<td>35 - 70</td>
</tr>
<tr>
<td>158LR-GAS-50.95-14-5+11TL</td>
<td>19.7 - 25.4</td>
<td>25 - 95</td>
</tr>
</tbody>
</table>

For use with copper tape screened cables. Order: Kit MT.
For use with Alupe or C 33-226 cables. Please contact our representative.
For adapted bail restraints: see Bail restraints and typical applications.
For outdoor applications. Order: +MWS.
Components can be ordered individually.
**Application**
Separable straight connector designed to connect polymeric insulated cable to equipment (transformers, switchgear, motors...). Also connects cable to cable, using the appropriate mating part.

**Technical characteristics**
- The thick conductive EPDM jacket provides a total safe to touch screen which ensures safety for personnel.
- Each separable connector is tested for AC withstand and partial discharge prior to leaving the factory.

**Design**
Separable connector comprising:
1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer moulded between the insert and the jacket.
4. Type A - 250 A interface as described by CENELEC EN 50180 and 50181.
5. Conductor connector.
6. Voltage test point.
7. Earthing lead (–/G version only).

**Specifications and standards**
The separable connector 152SR meets the requirements of CENELEC HD 629.1.

<table>
<thead>
<tr>
<th>Separable connector type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Conductor sizes (mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>152SR/G</td>
<td>12</td>
<td>250</td>
<td>min 16, max 70</td>
</tr>
<tr>
<td>152SR</td>
<td>12</td>
<td>250</td>
<td>70</td>
</tr>
<tr>
<td>K152SR/G</td>
<td>24</td>
<td>250</td>
<td>70</td>
</tr>
<tr>
<td>K152SR</td>
<td>24</td>
<td>250</td>
<td>25</td>
</tr>
</tbody>
</table>
**Kit contents**
The complete (K)152SR or (K)152SR/G straight connector kit comprises the following components:

- Conductor contact 1515RC-X or 151SRMC-X
- Bail restraint 151BA
- Connector housing (K)152SRH-G-W
- Cable reducer 211CA
- Connector housing (K)152SRH-W
- Cable adaptor 11TL

The kit also comprises lubricant, wipers, installation instructions and crimp chart.

**Ordering instructions**
Select the part number which gives the best centring to the cable core insulation diameter and substitute X using table X, according to the conductor size and type.
Add a 'K' for use up to 24 kV.

**Example:**
The copper wire screened cable is 24 kV, 50 mm² stranded aluminium with a diameter over core insulation of 20.4 mm. Order a K152SR-FG-50(K)M-12-2+11TL straight connector kit.

For an option with a bolted conductor contact, specify the ordering part number below.

**Table W**

<table>
<thead>
<tr>
<th>Ordering part number</th>
<th>Dia. over core insulation (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>min</td>
</tr>
<tr>
<td>152SR/G-11-X</td>
<td>12.6</td>
</tr>
<tr>
<td>152SR/G-13-X</td>
<td>14.6</td>
</tr>
<tr>
<td>152SR-FB-X+11TL</td>
<td>17.5</td>
</tr>
<tr>
<td>152SR-FG-X+11TL</td>
<td>18.4</td>
</tr>
<tr>
<td>152SR-GA-X+11TL</td>
<td>19.7</td>
</tr>
<tr>
<td>152SR-GAB-X+11TL</td>
<td>21.0</td>
</tr>
<tr>
<td>152SR-GH-X+11TL</td>
<td>23.6</td>
</tr>
</tbody>
</table>

**Table X**

<table>
<thead>
<tr>
<th>Conductor sizes (mm²)</th>
<th>Aluminium</th>
<th>Copper</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DIN hexagonal</td>
<td>Deep indent</td>
</tr>
<tr>
<td>16</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>25</td>
<td>25(K)M-12-2</td>
<td>25KM-12-1</td>
</tr>
<tr>
<td>35</td>
<td>35(K)M-12-2</td>
<td>35KM-12-1</td>
</tr>
<tr>
<td>50</td>
<td>50(K)M-12-2</td>
<td>50(K)M-12-1*</td>
</tr>
<tr>
<td>70</td>
<td>70(K)M-12-2</td>
<td>70(K)M-12-1*</td>
</tr>
<tr>
<td>95</td>
<td>95(K)M-12-2</td>
<td>95(K)M-12-1*</td>
</tr>
</tbody>
</table>

* The 152SR-FB is not compatible with these conductor contacts.

**Table contents**

<table>
<thead>
<tr>
<th>Ordering part number</th>
<th>Dia. over core insulation (mm)</th>
<th>Conductor sizes (mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>152SR/G-13-25.95-14-5</td>
<td>14.6 - 22.7</td>
<td>35 - 70</td>
</tr>
<tr>
<td>152SR-GAS-50.95-14-5+11TL</td>
<td>19.7 - 25.4</td>
<td>25 - 95</td>
</tr>
</tbody>
</table>
**Application**
Separable straight plug designed to connect polymeric insulated cable to cable. Mates with the elbow, straight and branch joint connectors.

**Technical characteristics**
- The thick conductive EPDM jacket provides a total safe to touch screen which ensures safety for personnel.
- Each straight plug is tested for AC withstand and partial discharge prior to leaving the factory.

**Design**
Separable connector comprising:
1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. Insulating EPDM layer moulded between the insert and the jacket.
4. Type A interface as described by CENELEC EN 50180 and 50181.
5. Conductor connector.

**Separator plug type**

<table>
<thead>
<tr>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Conductor sizes (mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>151SP</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>K151SP</td>
<td>24</td>
<td>16</td>
</tr>
<tr>
<td>6/10 (12) kV</td>
<td>200</td>
<td>95</td>
</tr>
<tr>
<td>6.35/11 (12) kV</td>
<td>200</td>
<td>95</td>
</tr>
<tr>
<td>8.7/15 (17.5) kV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12/20 (24) kV</td>
<td>200</td>
<td>95</td>
</tr>
<tr>
<td>12.7/22 (24) kV</td>
<td>200</td>
<td>95</td>
</tr>
</tbody>
</table>
Kit contents
The complete (K)151SP straight plug kit comprises the following components:

- Straight plug housing (K)151SPH-W
- Conductor contact 151SPC-X
- Cable adaptor 11TL

The kit also comprises lubricant, wipers, installation instructions and crimp chart.

Ordering instructions
Select the part number which gives the best centring to the cable core insulation diameter and substitute X using table X, according to the conductor size and type. Add a 'K' for use up to 24 kV.

Example:
The copper wire screened cable is 12 kV, 50 mm² stranded aluminium with a diameter over core insulation of 16.9 mm. Order a 151SP-A-50(K)M-12-2+11TL-FA/FAB straight plug kit.

### Table W

<table>
<thead>
<tr>
<th>Ordering part number</th>
<th>Dia. over core insulation (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>min</td>
</tr>
<tr>
<td>151SP:A-X+11TL-FA/FAB</td>
<td>14.6</td>
</tr>
<tr>
<td>151SP:B-X+11TL-FB/FG</td>
<td>17.2</td>
</tr>
<tr>
<td>151SP:B-X+11TL-GA/GAB</td>
<td>19.7</td>
</tr>
<tr>
<td>151SP:C-X+11TL-GB/GH</td>
<td>22.2</td>
</tr>
</tbody>
</table>

### Table X

<table>
<thead>
<tr>
<th>Conductor sizes (mm²)</th>
<th>Aluminium</th>
<th>Copper</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DIN hexagonal</td>
<td>Deep indent</td>
</tr>
<tr>
<td>16</td>
<td>25(K)M-12-2</td>
<td>25(K)M-12-1</td>
</tr>
<tr>
<td>25</td>
<td>35(K)M-12-2</td>
<td>35(K)M-12-1</td>
</tr>
<tr>
<td>35</td>
<td>50(K)M-12-2</td>
<td>50(K)M-12-1</td>
</tr>
<tr>
<td>50</td>
<td>70(K)M-12-2</td>
<td>70(K)M-12-1</td>
</tr>
<tr>
<td>70</td>
<td>95(K)M-12-2</td>
<td>95(K)M-12-1</td>
</tr>
<tr>
<td>95</td>
<td>25(K)M-11-2</td>
<td>95(K)M-11-2</td>
</tr>
</tbody>
</table>

For use with copper tape screened cables. Order: Kit MT.
For use with Alupe or C 33-226 cables. Please contact our representative.
For use with other cable types. Please contact our representative.
For adapted bail restraints: see Bail restraints and typical applications.
For outdoor applications. Order: +MWS.
Components can be ordered individually.
Application
Surge arrester designed to protect 12 and 24 kV class components, including transformers, equipment, cable and accessories from high voltage surges resulting from lightning or switching.

Technical characteristics
• This surge arrester is a metal oxide varistor surge arrester in an elbow configuration.
• Each arrester is tested for AC withstand and partial discharge prior to leaving the factory.

Design
Surge arrester comprising:
1. Bail restraint.
2. Conductive EPDM insert.
3. Type A - 250 A interface as described by CENELEC EN 50180 and 50181.
4. Pin contact.
5. Contact disc.
6. Copper shunt.
7. Metal oxide valve elements.
8. Aluminium spacer.
9. Steel cap.
10. Earth connection.
11. Insulating EPDM layer moulded between the insert and the jacket.
12. Conductive EPDM jacket.

<table>
<thead>
<tr>
<th>Surge arrester type</th>
<th>Nominal discharge current In (kA)</th>
<th>Rated voltage Ur (kV)</th>
<th>Max continuous operating voltage Uc (kV)</th>
<th>Steep current residual voltage @ 5 kA [1/20 µs] (kV)</th>
<th>Lightning current residual voltage @ 5 kA [8/20 µs] (kV)</th>
<th>High current impulse withstand (kA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>156SA-12</td>
<td>5</td>
<td>15</td>
<td>12.5</td>
<td>62.5</td>
<td>54.5</td>
<td>40</td>
</tr>
<tr>
<td>156SA-15</td>
<td>5</td>
<td>19</td>
<td>15.5</td>
<td>77.0</td>
<td>69.0</td>
<td>40</td>
</tr>
<tr>
<td>156SA-18</td>
<td>5</td>
<td>22</td>
<td>18.0</td>
<td>87.0</td>
<td>79.0</td>
<td>40</td>
</tr>
<tr>
<td>156SA-21</td>
<td>5</td>
<td>26</td>
<td>21.0</td>
<td>101.5</td>
<td>93.5</td>
<td>40</td>
</tr>
<tr>
<td>156SA-24</td>
<td>5</td>
<td>30</td>
<td>24.5</td>
<td>116.5</td>
<td>108.5</td>
<td>40</td>
</tr>
<tr>
<td>Typical application and dimensions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To order the surge arrester, specify the surge arrester type, as described on previous page.

**Example:**
For a maximum continuous operating voltage (r.m.s.) of 21 kV.
Order a 156SA-21 surge arrester.

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**Note:** the surge arrester body needs to be positioned vertically after installation.

In mm.
**Application**

For use in equipment insulated with oil fluid, typically for transformers, switchgear, capacitors...

**Technical characteristics**

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

**Specifications and standards**

The plug-in type equipment bushings 180AR-… meet the requirements of CENELEC EN 50180 and IEC 60137.

<table>
<thead>
<tr>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>6/10 (12) kV</td>
<td>250</td>
<td>222</td>
</tr>
<tr>
<td>6.35/11 (12) kV</td>
<td>250</td>
<td>222</td>
</tr>
<tr>
<td>8.7/15 (17.5) kV</td>
<td>250</td>
<td>284</td>
</tr>
<tr>
<td>12/20 (24) kV</td>
<td>250</td>
<td>284</td>
</tr>
<tr>
<td>12.7/22 (24) kV</td>
<td>250</td>
<td>171</td>
</tr>
<tr>
<td>180AR-1</td>
<td>12</td>
<td>250</td>
</tr>
<tr>
<td>K180AR-1</td>
<td>24</td>
<td>250</td>
</tr>
<tr>
<td>180AR-2</td>
<td>12</td>
<td>250</td>
</tr>
<tr>
<td>K180AR-2</td>
<td>24</td>
<td>250</td>
</tr>
<tr>
<td>180AR-3</td>
<td>12</td>
<td>250</td>
</tr>
<tr>
<td>K180AR-3</td>
<td>24</td>
<td>250</td>
</tr>
</tbody>
</table>

**Design**

- The equipment bushings are moulded epoxy insulated parts in accordance with CENELEC EN 50180. The 180AR-2 bushing has a length B outside this standard.
- The standard bushings, (K)180AR-1 /-2 /-3, are equipped with 6 tabs for the bail restraint.
- The (K)180AR-1-G and (K)180AR-3-G are equipped with 4 tabs and 2 threaded inserts M6 (-G version).

**Ordering instructions**

To order the equipment bushing, specify the type. The bushings are supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering. E.g. K180AR-1/J.
**FIXINGS FOR EQUIPMENT BUSHINGS**

180AR-1/GS  
180AR-1-G/GS  
180AR-2/GS  
180AR-3/GS and  
180AR-3-G/GS Bushings

**Bushing clamping kit**
To order the bushing clamping kit, according to NFC 52-053 standards, simply specify KBCNF1-200.  
Contents: - 3 x claw clamp NF  
- 1 x sealing gasket.

**Fixing dimensions standards NF C 52-053**  
French standards.

**Bushing clamping kit**
To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBCD-200.  
Contents: - 1 x fixing flange A  
- 4 x stud clamp E  
- 1 x sealing gasket.

**Fixing dimensions standards DIN 42 538**  
German standards.
**Application**
For use in equipment insulated with SF₆ gas.

**Technical characteristics**
Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

**Design**
The equipment bushing is a moulded epoxy insulated part with a connector interface in accordance with CENELEC EN 50181.
The 250SFR-P bushing has a shank outside this standard, adapted to use in SF₆ gas.

**Specifications and standards**
The plug-in type equipment bushings 250SFR-P meet the requirements of CENELEC EN 50180 and IEC 60137.

**Ordering instructions**
To order the equipment bushing, simply specify the type.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250SFR-P</td>
<td>12</td>
<td>250</td>
</tr>
<tr>
<td>K250SFR-P</td>
<td>24</td>
<td>250</td>
</tr>
</tbody>
</table>
250SFR-P Bushing for gas insulated switchgear

**UNMOUNTED**
- Dia. 91.5
- Dia. 103.1
- 60°
- 60°
- 60°
- 60°
- M6

**MOUNTED**
- Dia. 4
- 53.5
- 88.5
- 83
- M6
- earth connection M4
- equipment connection M4
- gasket
- sealing O-ring
- bail tab
- 6 fixing screws M6

In mm.
Application
For use in equipment insulated with air, typically for dry type transformers, motors, switchgear, capacitors...

Technical characteristics
Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

Specifications and standards
The plug-in type equipment bushings 180A-24P-O are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50181, IEC 60071 and IEC 60137.

Ordering instructions
To order the equipment bushing, specify the type. The bushings are supplied with an earth jumper.
To include the ring clamp, add:
• /B, if per British standards
• /D, if per German standards
• /F, if per French standards.
E.g. 180A-24P-O/F.

<table>
<thead>
<tr>
<th>Equipment bushing type</th>
<th>Voltage Um (kV)</th>
<th>Current Ir (A)</th>
<th>Creepage distance A-B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>180A-24P-O</td>
<td>12</td>
<td>250</td>
<td>630</td>
</tr>
<tr>
<td>180A-24P-O</td>
<td>24</td>
<td>250</td>
<td>630</td>
</tr>
</tbody>
</table>
**180A-24P-O In-air bushing**

**Fixing dimensions standards DIN 42 538**  
German standards.

**Fixing dimensions standards NF C 52-053**  
French standards.
**Application**

- Separable termination designed to connect overhead lines or bus bars to equipment.
- Is suitable for indoor and outdoor use for medium polluted atmosphere.

**Technical characteristics**

Each plug-in termination is tested for AC withstand prior to leaving the factory.

**Design**

The plug-in termination is a moulded epoxy insulated part. It meets the type A - 250 A interface as described in CENELEC EN 50180 and 50181.

**Specifications and standards**

The separable termination PITO-E meets the requirements of IEC 60137.

**Ordering instructions**

To order the plug-in termination for 12 or 24 kV, specify PITO-E. The kit includes the bail restraint and 2 brass nuts.

<table>
<thead>
<tr>
<th>Plug-in termination type</th>
<th>Voltage Ur (kV)</th>
<th>Current Ir (A)</th>
<th>Creepage distance A-B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PITO-E</td>
<td>12</td>
<td>250</td>
<td>510</td>
</tr>
<tr>
<td>PITO-E</td>
<td>24</td>
<td>250</td>
<td>510</td>
</tr>
</tbody>
</table>
**ACCESSORIES**

**INTERFACE A**

**Up to 24 kV**

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/10 (12) kV</td>
<td></td>
</tr>
<tr>
<td>6.35/11 (12) kV</td>
<td></td>
</tr>
<tr>
<td>8.7/15 (17.5) kV</td>
<td></td>
</tr>
<tr>
<td>12/20 (24) kV</td>
<td></td>
</tr>
<tr>
<td>12.7/22 (24) kV</td>
<td></td>
</tr>
</tbody>
</table>

---

**Application**
For use with connectors and bushings with an interface A as described by CENELEC EN 50180 and 50181.

**Technical characteristics**
All these products, except the earthing plug, are tested for AC withstand and partial discharge prior to leaving the factory.

---

**150DR**
Dead-end receptacle
Fits over a bushing with a type A interface to provide 'dead-end' facility.
Renders the assembly watertight.

**Ordering instructions**
Order 150DR for 12 kV or K150DR for 24 kV applications.
The dead-end receptacle can be supplied with an earth lead. Order: -/G. E.g. K150DR/G.

---

**150DP**
Dead-end plug
Plugs into connectors or receptacles to provide 'dead-end' facility.
Renders the assembly watertight.

**Ordering instructions**
Order 150DP for 12 kV or K150DP for 24 kV applications.

---

**151SOP**
Stand-off plug
Is designed to support and 'dead-end' connectors with a type A interface when removed from equipment.

**Ordering instructions**
Order 151SOP for 12 kV or K151SOP for 24 kV applications.

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**250GP**
Earthing plug
Is designed to support and earth connectors with a type A interface when removed from equipment.

**Ordering instructions**
Order 250GP for 12 kV or 24 kV applications.
**200T**
Separable tee connector
Is designed to connect three cables of the same or varying sizes or two cables to equipment.
For an adapted bail, please refer to the catalogue or contact our representative.

**Ordering instructions**
Order 200T for 12 kV or K200T for 24 kV applications.

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**200X**
Separable cross connector
Is designed to connect four cables of the same or varying sizes or three cables to equipment.
For an adapted bail, please refer to the catalogue or contact our representative.

**Ordering instructions**
Order 200X for 12 kV or K200X for 24 kV applications.

---

**1501J3-U-8**
Three-way junction
Provides a flexible means of connecting two or three cables of the same or varying sizes. For an adapted bail, please refer to the catalogue or contact our representative.

**Ordering instructions**
Order 1501J3-U-8 for 12 kV or K1501J3-U-8 for 24 kV applications.

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**Kit MT**
Earthing kit for copper tape screened cables
Contains a tinned copper braid (25 mm² - L=500 mm), a tinned copper wire for cleating and water sealing mastic.

**Ordering instructions**
Order Kit MT for 12 kV or 24 kV applications.
Application
For use with connectors, receptacles and bushings with an interface A as described by CENELEC EN 50180 and 50181.

Ordering instructions
The type of bail restraint is defined by its intended use with different types of connector, receptacle and/or bushing. To order the bail restraint, specify the type needed.

147BA
For use with:
1. (K)152SR straight connector,
2. (K)200T tee connector and
3. (K)150DR dead-end receptacle.

148BA
For use with:
1. (K)158LR elbow connector and
2. (K)150DP dead-end plug.

149BA
For use with:
1. (K)158LR elbow connector,
2. (K)200T tee connector and
3. (K)150DR dead-end receptacle.

150BA-B1
For use with:
1. (K)158LR elbow connector and
2. an interface A equipment bushing (shown), 250GP earthing plug, (K)151SOP stand-off plug (shown) or (K)1501J3-U-8 three-way junction.
**150TB-1**
For use with:
1. (K)200T tee connector and
2. an interface A equipment bushing (shown), 250GP earthing plug, (K)151SOP stand-off plug (shown) or (K)1501J3-U-8 three-way junction.

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**151BA**
For use with:
1. (K)152SR straight connector and
2. an interface A equipment bushing (shown), 250GP earthing plug, (K)151SOP stand-off plug (shown) or (K)1501J3-U-8 three-way junction.

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**152BA**
For use with:
1. (K)150DR dead-end receptacle and
2. an interface A equipment bushing (shown) or (K)1501J3-U-8 three-way junction.

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**153BA**
For use with:
1. (K)152SR straight connector and
2. (K)150DP dead-end plug.

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**154BA-CS180**
For use with:
1. (K)151SP straight plug and
2. (K)150DR dead-end receptacle.

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**155BA-1**
For use with:
1. 2 x (K)152SR straight connector and
2. (K)200T tee connector.

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**155BA-2 - CS180**
For use with:
1. (K)151SP straight plug and
2. (K)158LR elbow connector or
3. (K)200T tee connector.
156BA-1
For use with:
1. (K)200T tee connector and
2. (K)150DP dead-end plug.

157BA - CS181
For use with:
1. (K)152SR straight connector and
2. (K)151SP straight plug.

158BA
For use with:
1. (K)152SR straight connector,
2. (K)200T tee connector and
3. (K)158LR elbow connector.

159BA
For use with:
1. 2 x (K)158LR elbow connector and
2. (K)200T tee connector.

200BA
For use with:
1. (K)152SR straight connector and
2. (K)200X cross connector.

201BA
For use with:
1. (K)158LR elbow connector and
2. (K)200X cross connector.
202BA
For use with:
1. (K)152SR straight connector,
2. (K)200X cross connector and
3. (K)150DR dead-end receptacle.

203BA
For use with:
1. (K)158LR elbow connector,
2. (K)200X cross connector and
3. (K)150DR dead-end receptacle.

204BA
For use with:
1. (K)200X cross connector and
2. (K)151SP straight plug.

205BA
For use with:
1. (K)200X cross connector and
2. 2 x (K)152SR straight connector.

206BA
For use with:
1. (K)152SR straight connector,
2. (K)200X cross connector and
3. (K)158LR elbow connector.

207BA
For use with:
1. 2 x (K)158LR elbow connector and
2. (K)200X cross connector.

208BA
For use with:
1. (K)200X cross connector and
2. (K)150DR dead-end receptacle.
Additional catalogue information on power cable accessories is available by contacting us at the address below:

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