



PREFORMED FITTINGS

Specification No. RCBL-013/2555

Approved date :

Rev. No. 1 -

Form No. 12-3/12.12

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**C Material, equipment, and specifications for PREFORMED FITTINGS**

**C1 General material and packing instructions**

Additional to the general instructions, the following shall be observed :

**1a Scope**

These specifications cover preformed fitting, i.e., line guards, armour rods, dead-ends, spiral vibration dampers and spacers.

**1b Standard**

The preformed rods of line guards, armour rods, and dead-ends shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent.

**1c Principal requirement**

**1c.1 Line guards and armour rods**

The line guards and armour rods shall be so preformed that they are suitable for right hand lay bare conductors. They shall be center marked with colour code and set with plastic identification tape showing the conductor size and catalogue number. The length and number of rods per set are stated in Table "Length and Number of Rods/Set of Preformed Line Guards and Armour Rods". see Page 5 of 5.

**1c.2 Dead-ends**

The dead-ends shall be designed for direct application over conductors jacketed with polyethylene (PE), polyvinyl-chloride (PVC), or rubber. The dead-end legs shall be gritted and neoprene coated, and cross over marked with colour code to indicate starting point for application. Each dead-end shall have a plastic identification tape showing manufacturer, contract number, the conductor size and catalogue number.

**1c.3 Spiral vibration dampers**

The spiral vibration dampers shall be composed of damping section and gripping section, and made of solid polyvinyl chloride helical rods. Each spiral vibration damper shall have a plastic identification tape showing the conductor size and catalogue number.

**1c.4 Helical rod spacers**

The helical rod spacers shall be made of high strength aluminium-alloy, suitable for use on horizontal configuration, twin conductor bundles, and 69 kV and 115 kV systems.



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#### 1c.5 Sample

Free samples shall be supplied on request. PEA reserves the right to test the samples according to PEA's testing procedure. In case of the failing test results, the bidders shall be rejected. The samples will not be returned.

#### 1d Packing

Each item shall be packed separately in sets or pieces in suitable packages, preferably 100 sets or pieces per package

Except :

PEA Material No.	Preformed fittings	Sets or pieces per package
1020200103	Vibration damper	25
1020240000	Preformed helical rod spacer	10
1020220109	Preformed armour rod	10

#### 1e Test and test reports

The bidder has to submit the Certificate of Aluminium Alloy 6061 test report as specified in latest ASTM B 211 or Equivalent for the preformed rods of line guards, armour rods, and dead-ends.

The samples of the fitting shall have successfully passed the visual and dimensional test.

The samples of the dead-ends shall have successfully passed the tests as follows;

- The dead-ends shall be assembled in accordance with manufacturer's recommendations on cable of the size and type with which it is to be used. The assembled shall be mounted in a tensile testing machine and anchored in a manner approximating as nearly as possible, to the arrangement to be use in service, precautions being taken to avoid birdcaging of the cable. The length of cable between the dead-ends in the test assembly shall be not less than 100 times the overall diameter of the conductor.
- A tensile load of 40% of minimum breaking strength of the conductor shall be applied and maintained for 1 min. The load shall be removed and the fitting then removed from the cable in accordance with the manufacturer's instruction.



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- The dead-ends shall be reapplied to its original position on the cable and the procedure repeated as detailed in the previous paragraph.
- The dead-ends shall be reapplied to its original position on the cable and a tensile load of about 50% of minimum breaking strength of the conductor shall be applied and the cable shall be marked in such a way that movement relative to the fitting can easily be detected.
- Without any subsequent adjustment of the dead-ends, the load shall be steadily increased to 95% of minimum breaking strength of the conductor and then reduced to 90% of minimum breaking strength of the conductor and maintained for 1 min.
- There shall be no movement of the cable relative to the dead-ends due to slip during this period of 1 min and no failure of the dead-ends.

#### **C2 Material and packing data to be given by bidder**

**2a** The following details shall be submitted with the bid :

Catalogues and/or drawings with dimensions in mm .

Manufacturer's name or trade-mark.

Materials of preformed fittings.

Catalogue number.

Material of conductors for which the preformed fittings can be used (e.g., Al, Al-alloy, ACSR, etc)

Diameter range in mm of conductor for which the preformed fittings are designed.

Colour code.

Length of fitting in mm .

Number of rods per set, only for line guards, armour rods, dead-ends and helical rod spacers.

Diameter of rods in mm, only for line guards, armour rods, dead-ends and helical rod spacers.

Approximate applied length in mm, only for helical rod spacers.

Rated compression force in kg, only for helical rod spacers.

Rated holding strength in kg, only for dead-ends.

Weight in kg/100(or suitable numbers) sets or pieces.

User Guide.



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#### 2b Packing details

Packing method.

Number of sets or pieces in each package.

Dimensions of each package in cm .

Volume of each package in  $m^3$  .

Gross weight of each package in kg .

Net weight of each package in kg .

Number of packages.



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**Table 1**  
**Length and Number of Rods/set of Preformed Line Guards and Armour Rods**

Preformed	FEA Material No.	For Conductor		Minimum Length (mm)	Number of Rods per set
		size (mm <sup>2</sup> )	diameter (mm)		
For ACSR conductor	Line guard	35/6	8.10	530	9-10
	Armour rod	50/8	9.60	580	11
	Line guard	35/6	8.10	1,100	8-9
	Armour rod	50/8	9.60	1,250	10
	Line guard	35	7.56	530	9
	Armour rod	50	9.06	580	10-11
	Line guard	95	12.60	730	13-14
	Armour rod	120	14.25	780	14-15
For Aluminium conductor	Line guard	185	17.64	880	15
	Armour rod	35	7.56	1,060	8
	Line guard	50	9.06	1,200	9
	Armour rod	95	12.60	1,400	11
	Line guard	120	14.25	1,500	11
	Armour rod	185	17.64	1,700	12
	Line guard	240	20.25	1,930	11
	Armour rod	400	25.65	2,300	11
	Line guard	625	32.56	2,500	12
	Armour rod				



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## C3 Schedule of detailed requirement

Invitation to Bid No. : 4.3A/1401 (P.S.) EB 16/2565

Item	PEA Material No.	Quantity	Description
1	1020250001		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size <math>50 \text{ mm}^2/22 \text{ kV}</math> (approximate overall cable diameter 14.5 mm) with ;</p> <p>Standard : the preformed rods of dead-end shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent</p> <p>Rods per set : not less than 5 rods</p> <p>Diameter of rods : not less than 2.5 mm</p> <p>Overall length : not less than 750 mm</p> <p>Holding strength : not less than 725 kgf</p> <p>Complete with:</p> <p>Cross over marked with black colour to indicate starting point.</p>
2	1020250200		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size <math>120 \text{ mm}^2/22 \text{ kV}</math> and <math>95 \text{ mm}^2/33 \text{ kV}</math> (approximate overall cable diameter 20.0 mm) with ;</p> <p>Standard : the preformed rods of dead-end shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent</p> <p>Rods per set : not less than 6 rods</p> <p>Diameter of rods : not less than 3 mm</p> <p>Overall length : not less than 900 mm</p> <p>Holding strength : not less than 1,750 kgf</p> <p>Complete with:</p> <p>Cross over marked with blue colour to indicate starting point.</p>



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Invitation to Bid No. :

Item	PEA Material No.	Quantity	Description
3	1020250220		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size 120 mm<sup>2</sup>/33 kV and single-core space aerial cable, aluminium conductors size 50 mm<sup>2</sup>/22 kV (approximate overall cable diameter 22.0 mm) with ;</p> <p>Standard : the preformed rods of dead-end shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent</p> <p>Rods per set : not less than 6 rods</p> <p>Diameter of rods : not less than 3 mm</p> <p>Overall length : not less than 950 mm</p> <p>Holding strength : not less than 1,750 kgf</p> <p>Complete with:</p> <p>Cross over marked with black colour to indicate starting point.</p>
4	1020250004		<p>Preformed dead-end, gritted and neoprene coated, for use with single core partially insulated cable, aluminium conductors size 185 mm<sup>2</sup>/22 kV (approximate overall cable diameter 23.0 mm) with ;</p> <p>Standard : the preformed rods of dead-end shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent</p> <p>Rods per set : not less than 6 rods</p> <p>Diameter of rods : not less than 3 mm</p> <p>Overall length : not less than 1,100 mm</p> <p>Holding strength : not less than 2,715 kgf</p> <p>Complete with:</p> <p>Cross over marked with yellow colour to indicate starting point.</p>

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Invitation to Bid No. :

Item	PEA Material No.	Quantity	Description
5	1020250221		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size 185 mm<sup>2</sup>/33 kV and single-core space aerial cable, aluminium conductors size 95 mm<sup>2</sup>/22 kV and 50 mm<sup>2</sup>/33 kV (approximate overall cable diameter 25.5 mm) with ;</p> <p>Standard : the preformed rods of dead-end shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent</p> <p>Rods per set : not less than 6 rods</p> <p>Diameter of rods : not less than 4 mm</p> <p>Overall length : not less than 1,100 mm</p> <p>Holding strength : not less than 2,715 kgf</p> <p>Complete with:</p> <p>Cross over marked with green colour to indicate starting point.</p>
6	1020260200		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core space aerial cable, aluminium conductors size 120 mm<sup>2</sup>/22 kV and 95 mm<sup>2</sup>/33 kV (approximate overall cable diameter 27.7 mm) with ;</p> <p>Standard : the preformed rods of dead-end shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent</p> <p>Rods per set : not less than 6 rods</p> <p>Diameter of rods : not less than 3 mm</p> <p>Overall length : not less than 1,000 mm</p> <p>Holding strength : not less than 1,750 kgf</p> <p>Complete with:</p> <p>Cross over marked with blue colour to indicate starting point.</p>



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Invitation to Bid No. :

Item	PEA Material No.	Quantity	Description
7	1020260201		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core space aerial cable, aluminium conductors size 185 mm<sup>2</sup>/22 kV and 120 mm<sup>2</sup>/33 kV (approximate overall cable diameter 29.7 mm) with ;</p> <p>Standard : the preformed rods of dead-end shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent</p> <p>Rods per set : not less than 7 rods</p> <p>Diameter of rods : not less than 4 mm</p> <p>Overall length : not less than 1,200 mm</p> <p>Holding strength : not less than 2,715 kgf</p> <p>Complete with:</p> <p>Cross over marked with orange colour to indicate starting point.</p>
8	1020260104		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core space aerial cable, aluminium conductors size 185 mm<sup>2</sup>/33 kV (approximate overall cable diameter 32.2 mm) with ;</p> <p>Standard : the preformed rods of dead-end shall be made of heat-treated aluminium-alloy 6061 as specified in the latest ASTM B 211 or equivalent</p> <p>Rods per set : not less than 7 rods</p> <p>Diameter of rods : not less than 4 mm</p> <p>Overall length : not less than 1,200 mm</p> <p>Holding strength : not less than 2,715 kgf</p> <p>Complete with:</p> <p>Cross over marked with black colour to indicate starting point.</p>

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Item	PEA Material No.	Quantity	Description
9	1020200103		Vibration damper, spiral, for conductor diameter range 15.5-19.0 mm (Al-alloy conductor 185 mm <sup>2</sup> , ACSR 120/20-185/30 mm <sup>2</sup> ), length not less than 1,540 mm
10	1020240000	1,623 8/4	Prefomed helical rod spacer, for aluminium conductor diameter 25.65 mm (size 400 mm <sup>2</sup> ), spacing 200 mm (8"), and applied length approximately 1,100 mm. The spacer shall withstand a permanent compression force not less than 340 kgf without deformation.
11	1020210001		Prefomed line guard, for ACSR diameter 8.10 mm (size 35/6 mm <sup>2</sup> )
12	1020210002		Prefomed line guard, for ACSR diameter 9.60 mm (size 50/8 mm <sup>2</sup> )
13	1020210101		Prefomed line guard, for aluminium conductor diameter 7.56 mm (size 35 mm <sup>2</sup> )
14	1020210102		Prefomed line guard, for aluminium conductor diameter 9.06 mm (size 50 mm <sup>2</sup> )
15	1020210104		Prefomed line guard, for aluminium conductor diameter 12.60 mm (size 95 mm <sup>2</sup> )
16	1020210105		Prefomed line guard, for aluminium conductor diameter 14.25 mm (size 120 mm <sup>2</sup> )
17	1020210107		Prefomed line guard, for aluminium conductor diameter 17.64 mm (size 185 mm <sup>2</sup> )
18	1020220001		Prefomed armour rod, for ACSR diameter 8.10 mm (size 35/6 mm <sup>2</sup> )
19	1020220002		Prefomed armour rod, for ACSR diameter 9.60 mm (size 50/8 mm <sup>2</sup> )
20	1020220101		Prefomed armour rod, for aluminium conductor diameter 7.56 mm (size 35 mm <sup>2</sup> )

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Item	PEA Material No.	Quantity	Description
21	1020220102		Preformed armour rod, for aluminium conductor diameter 9.06 mm (size 50 mm <sup>2</sup> )
22	1020220104		Preformed armour rod, for aluminium conductor diameter 12.60 mm (size 95 mm <sup>2</sup> )
23	1020220105		Preformed armour rod, for aluminium conductor diameter 14.25 mm (size 120 mm <sup>2</sup> )
24	1020220107		Preformed armour rod, for aluminium conductor diameter 17.64 mm (size 185 mm <sup>2</sup> )
25	1020220108		Preformed armour rod, for aluminium conductor diameter 20.25 mm (size 240 mm <sup>2</sup> )
26	1020220109		Preformed armour rod, for aluminium conductor diameter 25.65 mm (size 400 mm <sup>2</sup> )
27	1020220110		Preformed armour rod, for aluminium conductor diameter 32.56 mm (size 625 mm <sup>2</sup> )

**Note :**

1. The bidder has to quote the unit cost.
2. 1 kgf = 9.80665 N



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Country of origin :

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
1	1020250001		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size 50 mm<sup>2</sup> / 22 kV with ;</p> <p>Standard : .....</p> <p>Rods per set : .....rods</p> <p>Diameter of rods : .....mm</p> <p>Overall length : .....mm</p> <p>Holding strength : .....kgf</p> <p>Complete with: .....</p>			



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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
2	1020250200		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size 120 mm<sup>2</sup>/22 kV and 95 mm<sup>2</sup>/33kV with ;</p> <p>Standard : .....</p> <p>Rods per set : .....rods</p> <p>Diameter of rods : .....mm</p> <p>Overall length : .....mm</p> <p>Holding strength : .....kgf</p> <p>Complete with: .....</p>			
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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
3	1020250220		Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size 120 mm <sup>2</sup> /33 kV and single-core space aerial cable, aluminium conductors size 50 mm <sup>2</sup> /22 kV with ;  Standard : .....  Rods per set : ..... rods  Diameter of rods : ..... mm  Overall length : ..... mm  Holding strength : ..... kgf  Complete with : .....			



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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
4	1020250004		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size 185 mm<sup>2</sup>/22 kV with ;</p> <p>Standard : .....</p> <p>Rods per set : .....rods</p> <p>Diameter of rods : .....mm</p> <p>Overall length : .....mm</p> <p>Holding strength : .....kgf</p> <p>Complete with: .....</p>			
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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
5	1020250221		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core partially insulated cable, aluminium conductors size 185 mm<sup>2</sup>/33 kV and single-core space aerial cable, aluminium conductors size 95 mm<sup>2</sup>/22 kV and 50 mm<sup>2</sup>/33 kV with ;</p> <p>Standard : .....</p> <p>Rods per set : .....rods</p> <p>Diameter of rods : .....mm</p> <p>Overall length : .....mm.</p> <p>Holding strength : .....kgf</p> <p>Complete with: .....</p>			
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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
6	1020260200		<p>Preformed dead-end, gritted and neoprene coated, for use with single-core space aerial cable, aluminium conductors size 120 mm<sup>2</sup>/22 kV and 95 mm<sup>2</sup>/33 kV with;</p> <p>Standard : .....</p> <p>Rods per set : .....rods</p> <p>Diameter of rods : .....mm</p> <p>Overall length : .....mm</p> <p>Holding strength : .....kgf</p> <p>Complete with: .....</p>			



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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
7	1020260201		Preformed dead-end, gritted and neoprene coated, for use with single-core space aerial cable, aluminium conductors size 185 mm <sup>2</sup> /22 kV and 120 mm <sup>2</sup> /33 kV with ; Standard : ..... Rods per set : .....rods Diameter of rods : .....mm Overall length : .....mm Holding strength : .....kgf Complete with: .....			
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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
8	1020260104		Preformed dead-end, gritted and neoprene coated, for use with single-core space aerial cable, aluminium conductors size 185 mm <sup>2</sup> /33 kV with ;  Standard : .....  Rods per set : .....rods  Diameter of rods : .....mm  Overall length : .....mm  Holding strength : .....kgf  Complete with: .....  .....			
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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
9	1020200103		Vibration damper, spiral, for conductor diameter range 15.5-19.0 mm (Al-alloy conductor 185 mm <sup>2</sup> , ACSR 120/20-185/30 mm <sup>2</sup> ), length not less than 1,540 mm			
10	1020240000		Preformed helical rod spacer, for aluminium conductor diameter 25.65 mm (size 400 mm <sup>2</sup> ), spacing 200 mm (8"), and applied length approximately 1,100 mm. The spacer shall withstand a permanent compression force not less than 340 kgf without deformation	1623		
11	1020210001		Preformed line guard, for ACSR diameter 8.10 mm (size 35/6 mm <sup>2</sup> )			
12	1020210002		Preformed line guard, for ACSR diameter 9.60 mm (size 50/8 mm <sup>2</sup> )			
13	1020210101		Preformed line guard, for aluminium conductor diameter 7.56 mm (size 35 mm <sup>2</sup> )			
14	1020210102		Preformed line guard, for aluminium conductor diameter 9.06 mm (size 50 mm <sup>2</sup> )			
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Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
15	1020210104		Preformed line guard, for aluminium conductor diameter 12.60 mm (size 95 mm <sup>2</sup> )			
16	1020210105		Preformed line guard, for aluminium conductor diameter 14.25 mm (size 120 mm <sup>2</sup> )			
17	1020210107		Preformed line guard, for aluminium conductor diameter 17.64 mm (size 185 mm <sup>2</sup> )			
18	1020220001		Preformed armour rod, for ACSR diameter 8.10 mm (size 35/8 mm <sup>2</sup> )			
19	1020220002		Preformed armour rod, for ACSR diameter 9.60 mm (size 50/8 mm <sup>2</sup> )			
20	1020220101		Preformed armour rod, for aluminium conductor diameter 7.56 mm (size 35 mm <sup>2</sup> )			
21	1020220102		Preformed armour rod, for aluminium conductor diameter 9.06 mm (size 50 mm <sup>2</sup> )			
22	1020220104		Preformed armour rod, for aluminium conductor diameter 12.60 mm (size 95 mm <sup>2</sup> )			



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Country of origin :

Item	PEA Material No.	Catalogue No.	Description	Quantity	Unit Cost (See details & condition attached)	Total Cost (See details & conditions attached)
23	1020220105		Preformed armour rod, for aluminium conductor diameter 14.25 mm (size 120 mm <sup>2</sup> )			
24	1020220107		Preformed armour rod, for aluminium conductor diameter 17.64 mm (size 185 mm <sup>2</sup> )			
25	1020220108		Preformed armour rod, for aluminium conductor diameter 20.25 mm (size 240 mm <sup>2</sup> )			
26	1020220109		Preformed armour rod, for aluminium conductor diameter 25.65 mm (size 400 mm <sup>2</sup> )			
27	1020220110		Preformed armour rod, for aluminium conductor diameter 32.56 mm (size 625 mm <sup>2</sup> )			
II						