PRYSMIAN
CABLES & SYSTEMS

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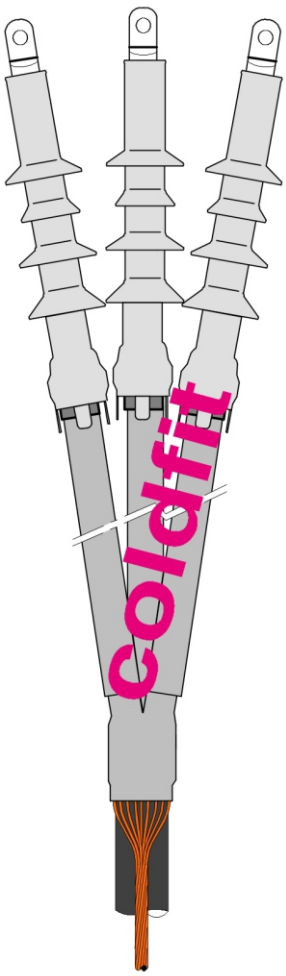
N° 3331C

Part number : **114 361 R**

CDTI-3C-24-T3 ARMOURED

COLDSHRINK INDOOR THREE CORE TERMINATION



USES AND CHARACTERISTICS

Voltage U_0 / U (Um) : **12 / 20 (24) kV**

Cable type	Cable core	Cross section
XLPE ARMOURED	Copper / Aluminium	**150 - 300** mm2

The proper use or installation of this product requires the skills and expertises of a licensed electrician. The onus is on the user to check that the accessories suits the foreseen use and that the real using conditions allow the proper conditions. The components of this package have to be checked before using. The fitter must follow the assembly instruction and he has to use the suitable equipment and tools. This assembly instruction does not substitute for training session, or expertise about security orders.

Prysmian Câbles et Systèmes France

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ED AP DE 0005 D

Index	Date	Written	Approved
c	20/07/17	L. Huchet	F. Michon
b	17/07/17	G. Bedet	M. Berne

MATERIAL LIST

Items description	Quantity
Insulation body	3
Shear bolt lug with assembly instruction	3
PVC tape E20/10	1
Black Mastic ME25/0.17	3
Black Mastic ME38/2m	2
Silicone Grease GS 25	2
Constant force spring	1
Vinyl glove	3
Sand paper band	1
Semi-conducting tape SC19/45	1
Assembly instruction with material list	1
Coldshrink trifurgating glove	1
Coldshrink tube	3

The proper use or installation of this product requires the skills and expertises of a licensed electrician. The onus is on the user to check that the accessories suits the foreseen use and that the real using conditions allow the proper conditions. The components of this package have to be checked before using. The fitter must follow the assembly instruction and he has to use the suitable equipment and tools. This assembly instruction does not substitute for training session, or expertise about security orders.

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Indoor single core termination – CDTI-1C

For polymeric cables– Coldfit termination
Generally meets the requirements of CENELEC HD 629.1S2 – IEEE 48 – IEC 60502-4

Coldfit®

Medium Voltage (MV)
Up to 12/20 (24) kV
For 36 kV, please consult us.
MV Terminations
Reference: CDTI-1C

Product Application and Design

Utilisation

- Indoor.
- In boxes and compact switchgears.
- In terminal boxes located outdoor and subject to condensation.

Cable

- Single core polymeric insulation (PE, XLPE, EPR …).
- Copper or aluminium conductors.
- Semi-conducting screen either extruded or taped.
- Metallic screen of Cu wire (T3), Cu tape (T2) or polylam (T1) type.
- Non-armoured or armoured (either tape, wire or polylam type).
- Insulation voltage up to 12/20 (24) kV.
- Conductor sizes: 25 to 630 mm².

Packing

Supplied as a kit of three single termination containing all the necessary components, including the shear-bold lugs. (if resquested)

Shipping weight and volume (approx): please consult us.

Other products

Indoor coldfit terminations for 1/C polymeric cables up to 18/30 (36) kV CDTO-1C.
Indoor and outdoor coldshrink terminations for 3/C polymeric cables up to 36 kV CDTI-3C, CDTO-3C.

Installation features

Coldshrink : no need for special tools, no heating or filling.
Vertical or angled (30°) position.
Energizing may take place immediately after completion of the termination.

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Description

① **Conductor lug**
Copper or aluminium. Crimped, deep intended or bolted type.

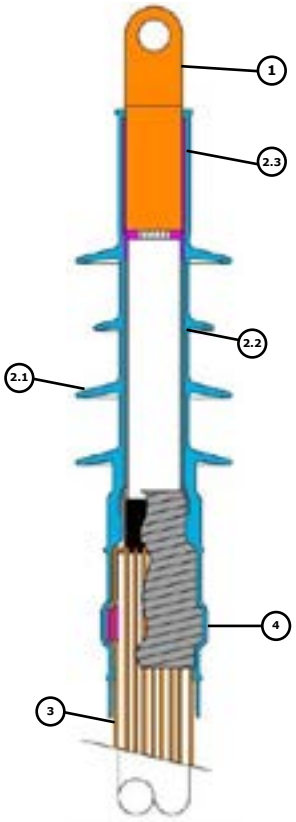
② **Termination body**
Coldshrink elements expandednon a removable carrier composed with :

- ②.1 **Insulation body with 4 SHEDS**
  Moulded in non-tracking silicone rubber.
- ②.2 **Stress relief tube.**
  Industrially applied on the removable carrier.
- ②.3 **Sealing mastic**
  Already integrated with the body.

③ **Earth fault device**
Fitted as necessary, depending on cable metallic screen design.

(T1 - T2 - T3)

④ **Sealing mastic**



Selection guide

1- Select in the table below the kit model corresponding to the diameter over insulation of cable.
For cables with reduced insulation thickness or other cross-sections, please contact us.

Voltage	Diam. Over insulation in mm		Conductor size in mm² (for guidance only)		Kit reference
	min	max	min	max	
12 kV	14.5	25	35	150	**CDTI-1C-12-A**
	17	28	70	185	**CDTI-1C-12-B**
	19	33	95	300	**CDTI-1C-12-C**
	21.5	38	150	500	**CDTI-1C-12-E**
	23	42	185	630	**CDTI-1C-12-F***
	27.5	50	300	630	**CDTI-1C-12-G**
	36	65	630	1000	**CDTI-1C-12-I***
17 kV	14.5	25	25	120	**CDTI-1C-17-A**
	17	28	50	150	**CDTI-1C-17-B**
	19	33	95	240	**CDTI-1C-17-C**
	21.5	38	150	400	**CDTI-1C-17-E**
	23	42	150	500	**CDTI-1C-17-F***
	27.5	50	300	630	**CDTI-1C-17-G**
	36	65	630	1000	**CDTI-1C-17-I***
24 kV	17	28	25	120	**CDTI-1C-24-B**
	19	33	50	240	**CDTI-1C-24-C**
	21.5	38	95	300	**CDTI-1C-24-E***
	23	42	150	500	**CDTI-1C-24-F**
	27.5	50	185	630	**CDTI-1C-24-G**
	36	65	630	1000	**CDTI-1C-24-I***
36 kV	21.5	38	25	185	**CDTI-1C-36-E**
	23	42	35	300	**CDTI-1C-36-F**
	27.5	50	95	500	**CDTI-1C-36-G**
	29	53	120	630	**CDTI-1C-36-H**
	36	65	630	1000	**CDTI-1C-36-I***

* Consult us

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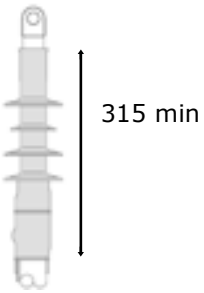
FT N°305 Indoor single core termination CDTI-1C - V2 Feb 2020

Description



Minimum creepage distance 372 mm.

2. Select suitable earthing device in the table below.

Eathing Device Reference	Type of Cable Metallic Screen
T1	polyam
T2	Copper tape
T3	Copper wires
Please contact us	Other

Example of order

1x240 mm², 24 kV cable with 30mm insulation diameter and copper wire metallic screen : **CDTI-1C-24-E-T3-240.**
On request : conductor lug: crimped, deep indented or bolted type.

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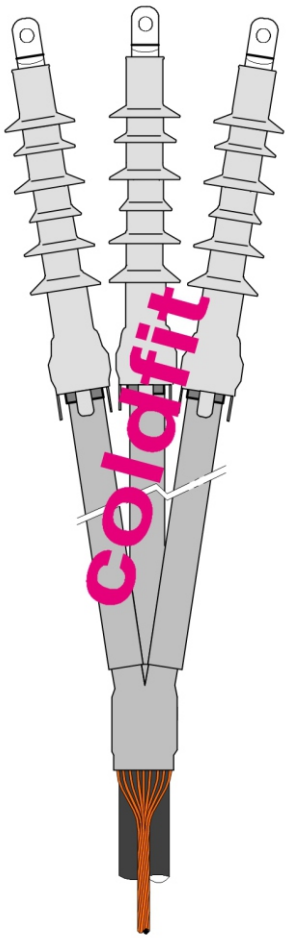
N° 3371C

Part number : **114 607 H**

CDTO-3C-24-T3 ARMOURED

COLDSHRINK OUTDOOR THREE CORE TERMINATION



USES AND CHARACTERISTICS

Voltage U_0 / U (Um) : **12 / 20 (24) kV**

Cable type	Cable core	Cross section
XLPE ARMOURED	Copper / Aluminium	**150 - 300** mm2

The proper use or installation of this product requires the skills and expertises of a licensed electrician. The onus is on the user to check that the accessories suits the foreseen use and that the real using conditions allow the proper conditions. The components of this package have to be checked before using. The fitter must follow the assembly instruction and he has to use the suitable equipment and tools. This assembly instruction does not substitute for training session, or expertise about security orders.

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MATERIAL LIST

Items description	Quantity
Insulation body	3
Shear bolt lug with assembly instruction	3
PVC tape E20/10	1
Black Mastic ME25/0.17	3
Black Mastic ME38/2m	2
Silicone Grease GS 25	2
Constant force spring	1
Vinyl glove	3
Sand paper band	1
Semi-conducting tape SC19/45	1
Assembly instruction with material list	1
Coldshrink trifurgating glove	1
Coldshrink tube	3

The proper use or installation of this product requires the skills and expertises of a licensed electrician. The onus is on the user to check that the accessories suits the foreseen use and that the real using conditions allow the proper conditions. The components of this package have to be checked before using. The fitter must follow the assembly instruction and he has to use the suitable equipment and tools. This assembly instruction does not substitute for training session, or expertise about security orders.

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Outdoor single core termination – CDTO-1C

For polymeric cables– Coldfit termination
Generally meets the requirements of CENELEC HD 629.1S2 – IEEE 48 – IEC 60502-4

Coldfit®

Medium Voltage (MV)
Up to 19/33 (36) kV
MV Terminations
Référence: CDTO-1C

Product Application and Design

Utilisation

- Outdoor, subject to severe climatic conditions, solar radiation and pollution.
- Terminating cables onto overhead lines or busbars.

Cables

- Single core polymeric insulation (PE, XLPE, EPR …).
- Copper or aluminium conductors, solid or stranged.
- Semi-conducting screen either extruded or taped.
- Metallic screen of Cu wire (T3), Cu tape (T2) or polylam (T1) type.
- Non-armoured or armoured (either tape, wire or polylam type).
- Insulation voltage up to 19/33 (36) kV.
- Conductor sizes: 25 to 1000 mm².

Packing

Supplied as a kit of three single termination containing all the necessary components, including the shear-bold lugs.

Shipping weight and volume (approx): 1.5 kg / 0.010m³

- 12 kV → 1.7 kg / 0.007 m³
- 17.5 kV → 2 kg / 0.01 m³
- 24 kV → 2.2 kg / 0.01 m³
- 36 kV → 2.5 kg/ 0.01 m³

Other products

Indoor coldfit terminations for 1/C polymeric cables up to 19/33 (36) kV CDTI-1C.
Indoor and outdoor coldshrink terminations for 3/C polymeric cables up to 36 kV CDTI-3C, CDTO-3C.

Installation features

Coldshrink : no need for special tools, no heating or filling.
Vertical or angled (30°) position.
Energizing may take place immediately after completion of the termination.

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FT N°304 Outdoor single core termination CDTO-1C - V2 Feb 2020

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Description

① **Conductor lug**
Copper or aluminium. Crimped, deep indented or bolted type.

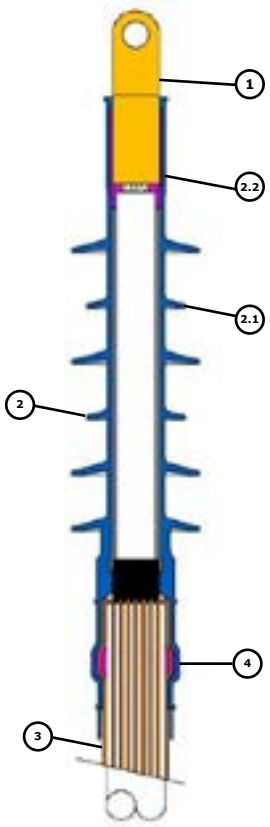
② **Insulation body**
Coldshrink element, moulded in non-tracking silicone rubber and expanded on a removable carrier.

②.1 **Stress relief tube**
Integrated, made of high permittivity material. Controls the distribution of the electrical field at the cable screen cutback.

②.2 **Sealing mastic**
Industrially applied on the removable carrier.

③ **Earth fault device**
Fitted as necessary, depending on cable design (T1-T2-T3).

④ **Sealing mastic**



Selection guide

1- Select in the table below the kit model corresponding to the diameter over insulation of cable.

Voltage	Diam. Over insulation in mm		Conductor size in mm² (for guidance only)		Kit reference
	min	max	min	max	
12 kV	14.5	25	35	150	**CDTO-1C-12-A**
	17	28	70	185	**CDTO-1C-12-B**
	19	33	95	300	**CDTO-1C-12-C**
	21.5	38	150	500	**CDTO-1C-12-E**
	23	42	185	630	**CDTO-1C-12-F***
	27.5	50	300	630	**CDTO-1C-12-G**
	36	65	630	1000	**CDTO-1C-12-I***
17 kV	14.5	25	25	120	**CDTO-1C-17-A**
	17	28	50	150	**CDTO-1C-17-B**
	19	33	95	240	**CDTO-1C-17-C**
	21.5	38	150	400	**CDTO-1C-17-E**
	23	42	150	500	**CDTO-1C-17-F***
	27.5	50	300	630	**CDTO-1C-17-G**
	36	65	630	1000	**CDTO-1C-17-I***
24 kV	17	28	25	120	**CDTO-1C-24-B**
	19	33	50	240	**CDTO-1C-24-C**
	21.5	38	95	300	**CDTO-1C-24-E***
	23	42	150	500	**CDTO-1C-24-F**
	27.5	50	185	630	**CDTO-1C-24-G**
	36	65	630	1000	**CDTO-1C-24-I***
36 kV	21.5	38	25	185	**CDTO-1C-36-E**
	23	42	35	300	**CDTO-1C-36-F**
	27.5	50	95	500	**CDTO-1C-36-G**
	29	53	120	630	**CDTO-1C-36-H**
	36	65	630	1000	**CDT0-1C-36-I***

* Consult us

For high gradient cables (reduced insulation thickness) or other cross-sections, please contact us.

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FT N°304 Outdoor single core termination CDTO-1C - V2 Feb 2020

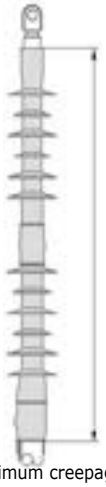
2- Select suitable earthing device in the table below.

Earthing Device Reference	Type of Metallic Screen of Cable
T1	polylam
T2	Copper tape
T3	Copper wires

Example of order

1x300mm² 24 kV cable with 30 mm insulation diameter and copper wire metallic screen : **CDTO-1C-24-G-Ne-T3-300**.
On request : conductor lug: crimped, deep indented or bolted type.

Overall dimensions & pollution level according to IEC/TS60815-1 : 2008

6.35/11 (12) kV 6/10 (12) kV	8.7/15 (17.5) kV	12.7/22 (24) kV 12/20 (24) kV	19/33 (36) kV 18/30 (36) kV	
			 Minimum creepage distance 721 mm	MEDIUM 34.7 mm/kV (Nc)
 Minimum creepage distance 372 mm	 Minimum creepage distance 438 mm	 Minimum creepage distance 600 mm	 Minimum creepage distance 900 mm	HEAVY 43.3 mm/kV (Nd)
	 Minimum creepage distance 543 mm	 Minimum creepage distance 744 mm	 Minimum creepage distance 1116 mm	VERY HEAVY 53.7 mm/kV (Ne)

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FT N°304 Outdoor single core termination CDTO-1C - V2 Feb 2020

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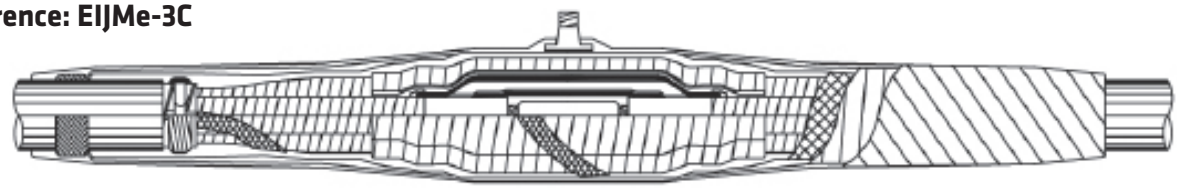
Elastic straight through joint with integrated electrode

elaspeed® INJECTFIT

For three core polymeric cables - resin injected outer protection
Generally meets the requirements of IEC 60502-4 - CENELEC HD 629-1 S2 - IEEE 404

Medium Voltage (MV)
Up to 12,7/22 (24) kV
MV Joints
Reference: EIJMe-3C



Product Application and Design

Utilisation

- Coldshrink joint for polymeric insulated cables of various specifications.
- May be directly buried (after curing of resin).
- Jointing cables laid underground, in tunnels on horizontal racks, or aerial.

Cables

- Three core polymeric insulation (XLPE, EPR).
- Copper or aluminum conductor.
- Metallic screen copper tape or copper wires.
- Semi-conducting screen either extruded or taped.
- Insulation voltage up to 24 kV.
- Conductor sizes: 25 to 500 mm^2.
- Non-armoured or armoured.

Packing

Supplied as a kit for one three core joint containing all the necessary components except the ferrules (supplied on request).

Shipping weight and volume (approx) of kit

- 12 kV ➔ 12 kg / 0.05 m^3
- 17.5 kV ➔ 12 kg / 0.05 m^3
- 24 kV ➔ 12 kg / 0.05 m^3

Other products

- Joint for 1/C polymeric cables EPJMe-1C, RTJMe-1C.

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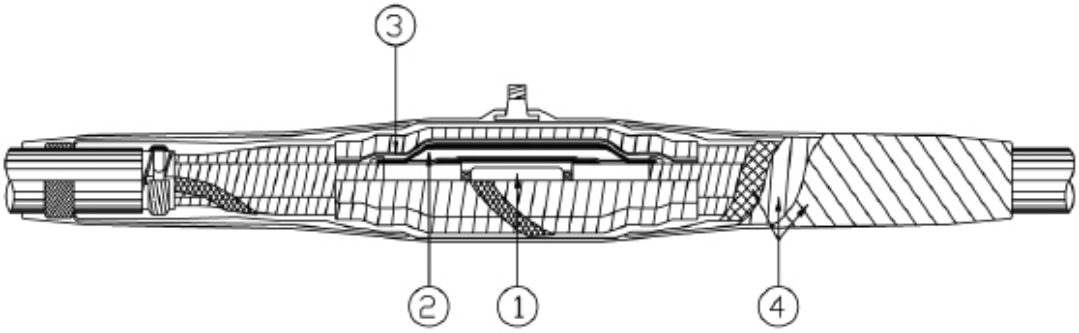
FT N°320 Elastic Straight Through Joint EIJMe 3C - V1 May 2018

Installation features

- No need for special tools nor heating.
- Injection of resin with mechanical gun (not supplied) or with disposable injection device (supplied on request, add letter "F" at the end of kit reference).
- Energizing of cable: if necessary, 30 minutes after injecting.
- Polymerisation of synthetic resins at ambient temperatures : +5°C to +45°C.

Description



This product is a combination of a Cold-Shrink insulating body encapsulated in an injected resin outer protection.

① **Conductor ferrule**
Crimped, deep indented or bolted type. For mechanical connector, please consult us.

② **Cold-Shrink joint body**
It maintains a permanent and uniform contact pressure on the cable insulation.
Extruded EPR rubber, electrically tested in factory after extrusion. It includes:
- semi-conducting layer used like shielding electrode,
- stress relief layer,
- insulation layer,
- outer semi-conducting layer. The joint body rebuilds three cable layers.

The outer semi-conducting layer ensures relief of electrical stress and connection to cable screens.

Traceability label
Each joint body is delivered with a serial lot number for full traceability.

Removable carrier
The joint body is pre-loaded on a single removable carrier made of two parts. Standard carrier : self-eject tube. Other : please consult us.

③ **Core screen**
Tubular tinned copper braid connected on cable screens with constant force springs.

④ **Outer protection**
Ensures the mechanical protection and the watertightness of the joint. Plastic net tape applied in several layers with transparent enclosure tape to contain the injected resin. The resin is packaged in two-component, watertight plastic bags. Epoxy and Polyurethane versions are available.

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1- Select in the table below, the kit size corresponding to the insulation voltage **(in kV : 12 - 17.5 - 24)** and the diameter over insulation.

Voltage Um	Min diam over insulation in mm	Conductor application range in mm² (for guidance only)		Kit reference
		min	max	
12 kV	17,2	70	120	**EIJMe-3C-12-D**
	19,0	95	150	**EIJMe-3C-12-E**
	23,1	185	300	**EIJMe-3C-12-F**
	24,4	240	400	**EIJMe-3C-12-H**
	27,8	300	500	**EIJMe-3C-12-IP**
17,5 kV	17,2	70	70	**EIJMe-3C-17-D**
	19,0	70	120	**EIJMe-3C-17-E**
	23,1	150	240	**EIJMe-3C-17-F**
	24,4	185	300	**EIJMe-3C-17-H**
	27,8	240	500	**EIJMe-3C-17-IP**
24 kV	17,2	25	50	**EIJMe-3C-24-D**
	19,0	50	95	**EIJMe-3C-24-E**
	23,1	95	240	**EIJMe-3C-24-F**
	24,4	120	300	**EIJMe-3C-24-H**
	27,8	185	400	**EIJMe-3C-24-IP**

2- Specify insulation voltage Um in kV: 12 - 17 - 24

3- Select the screen continuity device according to the type of metallic screen of cable:

Earthing Device Reference	Type of Metallic Screen of Cable
T2	Copper tape
T3	Copper wires

4- Disposable injection device: if to be supplied, add letter "F" at end of kit reference.

Example of order

3 x 150 mm², 20 kV three core polymeric insulated cable, with tape screen, 26.0 mm, without disposable injection device : **EIJMe-3C-24-F-T2.**

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FT N°320 Elastic Straight Through Joint EIJMe 3C - V1 May 2018

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Elastic straight through joint

elaspeed® CLASSIC

For single core polymeric cables
Generally meets the requirements of IEEE 404 - IEC 60502-4 - CENELEC HD 629-1 - S2 - EDF HN33E03

Medium Voltage (MV)
Up to 19/33 (36) kV
MV Joints
Reference : EPJM-1C V1.2.

Product Application and Design

Utilisation

- Coldshrink joint for polymeric insulated cables of various specifications.
- May be directly buried.
- Jointing cables laid underground, in tunnels on horizontalracks, or aerial.

Cables

- Single core polymeric insulation (PE, XLPE, EPR, ...).
- Copper or aluminum conductor, solid or stranded.
- Metallic screen copper tape, copper wires or polylam type.
- Semi-conducting screen either extruded or taped.
- Insulation voltage up to 36 kV.
- Conductor sizes: 25 to 630 mm^2 (or above).
- Non-armoured or armoured.

Packing

Supplied as a kit for one single core joint (P1) or three single core joints (P3) containing all the necessary components except the ferrules (supplied on request).

Shipping weight and volume (approx) of kit (P1)

- 12 kV → 1.9 kg / 0.01 m^3
- 17.5 kV → 2.0 kg / 0.01 m^3
- 24 kV → 2.5 kg / 0.01 m^3
- 36 kV → 3.7 kg / 0.01 m^3

Other products

- Joint for 3/C polymeric cables RTJM-3C, EIJM-3C.
- Transition joint between 3/C MIND paper cables(radial or non radial) and 3/C or 3 x 1/C polymeric cables.

Prysmian Group Sales department - mail: infocables.fr@prysmiangroup.com
www.prysmiangroup.com

FT N°311 Elastic Straight Through Joint EPJM 1C - V2 May 2018

Installation features

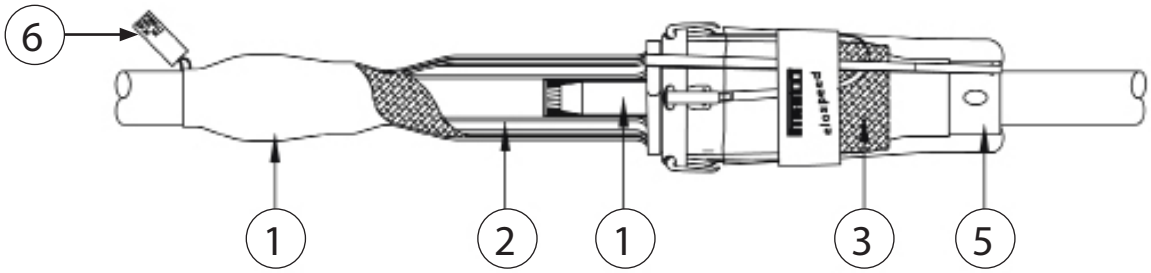
No need for special tools, no heating.
Immediate energizing after completion of the joint.


0°C +50°C


-10°C +50°C

Shelf life: 2 years

Description



① **Conductor ferrule**
Crimped, deep indented or bolted type. For mechanical connector, please consult us.

② **Joint body**
It maintains a permanent and uniform contact pressure on the cable insulation.
Extruded EPR rubber, electrically tested in factory after extrusion. It includes :
- stress relief layer,
- insulation layer,
- outer semi-conducting layer. The joint body rebuilds three cable layers.

The outer semi-conducting layer ensures relief of electrical stress and connection to cable screens.

③ **Joint screen**
Tubular tinned copper braid connected on cable screens with constant force springs.

④ **Elastic outer protection**
Extruded EPR rubber, it maintains a permanent and uniform contact pressure on the cable outer sheaths.
It ensures mechanical protection, UV resistance and watertightness of the joint.

⑤ **Self-eject carrier tube**
The whole joint (items 2 to 4) is pre-loaded on a single self-eject carrier tube made of two parts.

⑥ **Traceability label**
Each joint is delivered with a serial lot number for full traceability.

1- Select in the table below, the kit size corresponding to the insulation voltage (in kV: 12 - 17.5 - 24 - 36), the diameter over cable insulation and the diameter over cable outer sheath:

Voltage Um	Max Diam over outer sheath in mm (*)	Min Diam over insulation in mm	Conductor application range in mm² (for guidance only)		Kit reference
			min	max	
12 kV	34	17,2	70	120	**EPJM-1C-12-D**
	38	19,0	95	150	**EPJM-1C-12-E**
	48	23,1	185	300	**EPJM-1C-12-F**
	50	24,4	240	400	**EPJM-1C-12-H**
	57	27,8	300	500	**EPJM-1C-12-IP**
	67	31,9	400	630**	**EPJM-1C-12-I**
17,5 kV	34	17,2	70	-	**EPJM-1C-17-D**
	38	19,0	70	120	**EPJM-1C-17-E**
	48	23,1	150	240	**EPJM-1C-17-F**
	50	24,4	185	300	**EPJM-1C-17-H**
	57	27,8	240	500	**EPJM-1C-17-IP**
	67	31,9	400	630**	**EPJM-1C-17-I**
24 kV	34	17,2	25	50	**EPJM-1C-24-D**
	38	19,0	50	95	**EPJM-1C-24-E**
	48	23,1	95	240	**EPJM-1C-24-F**
	50	24,4	120	300	**EPJM-1C-24-H**
	57	27,8	185	400	**EPJM-1C-24-IP**
	67	31,9	300	630	**EPJM-1C-24-I**
36 kV	50	24,4	50	150	**EPJM-1C-36-H**
	57	27,8	95	300	**EPJM-1C-36-IP**
	67	31,9	185	630	**EPJM-1C-36-I**

(*) Including screen continuity device (**) for cross sections above 630 mm², please consult us.

2- Specify insulation voltage in kV : 12 - 17 - 24 - 36

3- Select the screen continuity device according to the type of metallic screen of cable :

Earthing Device Reference	Type of Metallic Screen of Cable
T1	polylam
T2	Copper tape
T3	Copper wires

4- Select the packing: **P1** = kit for one phase or **P3** = kit for three single core phases.

Example of order

1x150 mm2, 20 kV single core polymeric insulated cable, with copper wire screen, aluminium conductor,diameter over insulation 26.0 mm, diameter over outer sheath 39.0 mm, kit for one phase : **EPJM-1C-24-F-T3-P1 V1.2.**

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FT N°311 Elastic Straight Through Joint EPJM 1C - V2 May 2018

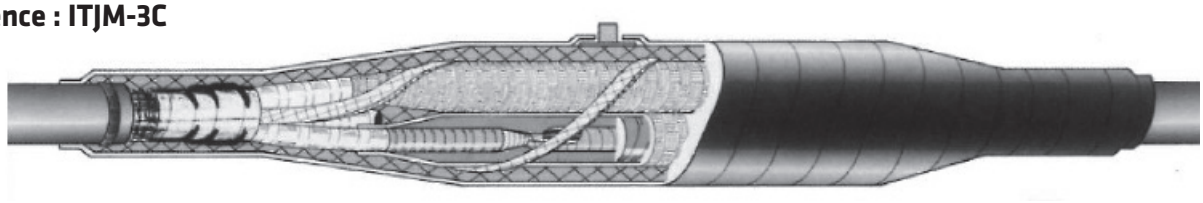
A mark of Prysmian Group

Injected straight through joint - ITJM-3C

Injectfit

For three core polymeric and MIND paper insulated cables
Generally meets the requirements of C 33-001 - VDE 0278 - IEC 60502 - HD 629.

Medium Voltage (MV)
Up to 36 kV
MV Joints
Reference : ITJM-3C



Product Application and Design

Utilisation

- Jointing of three core MIND paper insulated cables (radial or belted) or of three core polymeric insulated cables.
- Jointing of three core polymeric cables (radial or belted) with three core MIND paper insulated cables (radial or belted).
- Conductor sizes equal or unequal.
- May be directly buried (after curing of resin).
- Jointing cables laid underground or in tunnels on horizontal racks.
- May be used in special environmental conditions such as oil industry.

Cables

- Three core MIND paper insulation.
- Three core polymeric insulation.
- Copper or aluminium conductor.
- Metallic screen of tape or wire type.
- Semi-conducting screen either extruded or taped.
- Non-armoured or armoured.
- Insulation voltage up to 36 kV.
- Conductor sizes: 16 to 300 mm^2.

Packing

Supplied as a kit for one three core joint containing all the necessary components except the ferrules (supplied on request).

Shipping weight and volume (approx) of kit

- 12 kV → 1.9 kg / 0.01 m^3
- 17.5 kV → 2.0 kg / 0.01 m^3
- 24 kV → 2.5 kg / 0.01 m^3

Other products

- Joint for 1/C polymeric or MIND paper insulated cables, ITJM-1C.
- Joint betvveen 3/C polymeric cables (radial) and three 1/C polymeric or MIND paper insulated cables, ITJM-3x1C.
- Transition joint betvwen one 3/C or three 1/C polymeric cables and one 3/C or three 1/C (or one 3/C single lead) MIND paper insulated cables, ITJM-1C/3C.
- Branch-joint for 1/C or 3/C polymeric cables, ITBM-1C and ITBM-3C.
- Transition branch-joint between 3/C MIND paper insulated cables and polymeric cables, ITBM-3C.

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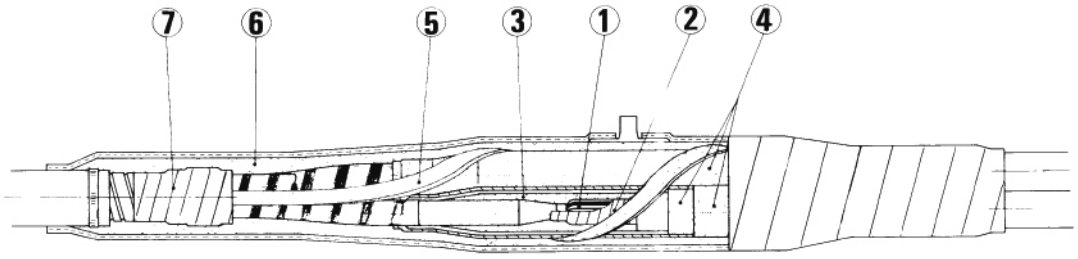
FT N°315 Injected Straight Through Joint ITJM 3C - V1 May 2018

Installation features

- No need for special tools or heating.
- Injection of resin with mechanical gun (not supplied) or with disposable injection device (can be supplied directly the kit - in this case, letter «F» to be added at the end of the kit reference).
- Energizing of cable 30 minutes after injecting.
- Polymerization of synthetic resins at ambient temperature + 5°C to + 45°C.
  Other conditions on request.

Description



① **Conductor ferrule**
Crimped, deep indented or bolted type. Please consult us.

② **Semi-conducting layer**
Wrapping of selfamalgamating semi-conducting EPR tape.

③ **Core insulation**
Wrapping of selfamalgamating insulating EPR tape.

④ **Equipotential connection**
Wrapping of selfamalgamating semi-conducting EPR tape and of tinned copper mesh tape.

⑤ **Core screen**
Tinned copper braid of adapted cross section, connected on the metallic screen of cable.

⑥ **Outer protection**
Plastic net tape applied in several layers With transparent enclosure tape to contain the injected resin.
The resin is contained in two-component, watertight plastic bags.

⑦ **Watertightness**
Rings of mastic around the outer sheath and injected.

1- Select in the table below, the kit model corresponding to the insulation voltage (in kV : 12 - 17.5 - 24 - 36) and to the highest cross section (in mm).

2- Add letter "F" to the kit reference, if a disposable injection device should be supplied in the kit.

Voltage Um	Max conductor size mm² (for guidance only)	Kit reference
12 kV	50	**ITJM-3C-12-50**
	95	**ITJM-3C-12-95**
	150	**ITJM-3C-12-150**
	300	**ITJM-3C-12-300**
17,5 kV	50	**ITJM-3C-17-50**
	95	**ITJM-3C-17-95**
	150	**ITJM-3C-17-150**
	300	**ITJM-3C-17-300**
24 kV	50	**ITJM-3C-24-50**
	95	**ITJM-3C-24-95**
	150	**ITJM-3C-24-150**
	300	**ITJM-3C-24-300**
36 kV	50	**ITJM-3C-36-50**
	95	**ITJM-3C-36-95**
	150	**ITJM-3C-36-150**
	300	**ITJM-3C-36-300**

Example of order

3x120 mm², 20 kV, three core, armoured, MIND paper insulated cable, with disposable injection device : **ITJM-3C-24-150-F.**

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FT N°315 Injected Straight Through Joint ITJM 3C - V1 May 2018