

Cable Joints, Terminations & Accessories up to 66kV



50
POWERFUL YEARS



Awards & Recognitions

- Award for Excellence from Engineering Export Promotion Council.
- Certificate of Merit from National Productivity Council of India by Hon'ble President of India.
- Awards for Excellence 2003-2004.
- Recognition of excellence award by the Institute of Marketing & Management Certificate of Merit from Haryana State Safety and Welfare Award National Award 2009.
- National Awards 2009 for Outstanding Entrepreneurship.
- SMERA B4 Credit Rating Award by SME.
- SMB Award.
- Kesari for Management.
- Certificate of Merit.
- PHD Annual Awards for Excellence 2014.
- EPC India Awards for Export Excellence 2014-15.
- ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018.
- National Productive Council Award 2014-15 by Shri Kalraj Mishra (Hon'ble Union Minister for Micro, Small & Medium Enterprises) Government of India.
- Export Award for The Year 2013-14 by Government of Haryana Industries & Commerce Department.
- Export Award for The Year 2014-15 by Government of Haryana Industries & Commerce Department.
- EEPC India Award For The Year 2014-15.



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Company Overview

Ensuring Uninterrupted Power Supply

Yamuna Cable Accessories (P) Ltd. (YCAPL) is an ISO: 9001-2015 Certified Company backed by 50 years of experience. Headquartered at Yamuna Nagar, Haryana, India, Yamuna Densons is a front runner in designing, producing and supplying power cable jointing accessories upto 66kV under Densons brand.

We are one stop shop for all kinds of Power Cable Jointing Accessories such as Resin Pour, Tapex, Heat Shrinkable, Pre-Moulded (Slip-On), Cold Shrink Type up to 66 kV & Silicone Insulators ranging from 11 kV up to 220kV.

Extra Mile Features of **YAMUNA DENSONS**

- Driven by 50 Years of experience, backed by customers faith in our products, services and expertise has made Yamuna Densons the most preferred supplier for World class cable jointing products in more than 35 Countries across the World.
- We have the ability to work with customers at all levels and offer them the most comprehensive solutions with National & International quality standards, complying to IS, IES, VDE and Cenelec standards backed by third party testing at Independent test labs in CPRI, KEMA and IPH.
- Quality is the cornerstone of our success and a key to our global competitiveness. Our quality Control team keeps close vigilance on the products to ensure that customers, no matter where they are located, receive consistent and excellent quality products and services.
- Our in-house production ability is unrivaled in the industry and provides consistency, flexibility and quick turnaround ensuring fast deliveries and smaller batches.
- Our R&D Lab is approved by Ministry of Science & Technology, Govt. of India. It has been awarded for Innovation, Quality, Export Excellence and Productivity by Engineering Export Promotion Council & Govt. of India.



35
Plus
Countries Global
Presence

200
Plus
Skilled
Manpower

4
World Class
Manufacturing
Facilities

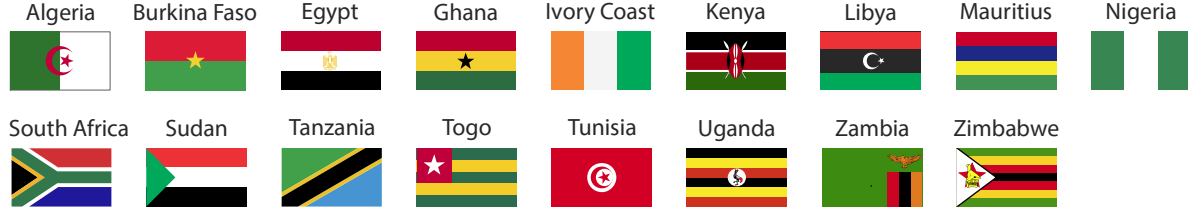
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Internationally
Approved
Products

Global Footprints

Asia



Africa



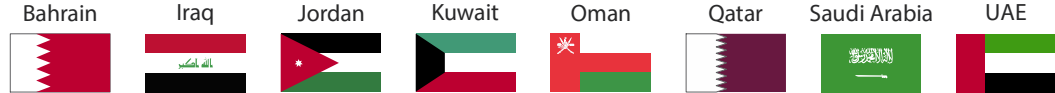
Latin America



Europe



Gulf Region



YAMUNA DENSON'S Heat Shrink Cable Joints & Terminations
 4 Core up to 1.1 kV for Low Tension PVC/XLPE/PILC Cable (1.1kV)
XSE/XSO/PSE/PSO/XSSO/PSSO



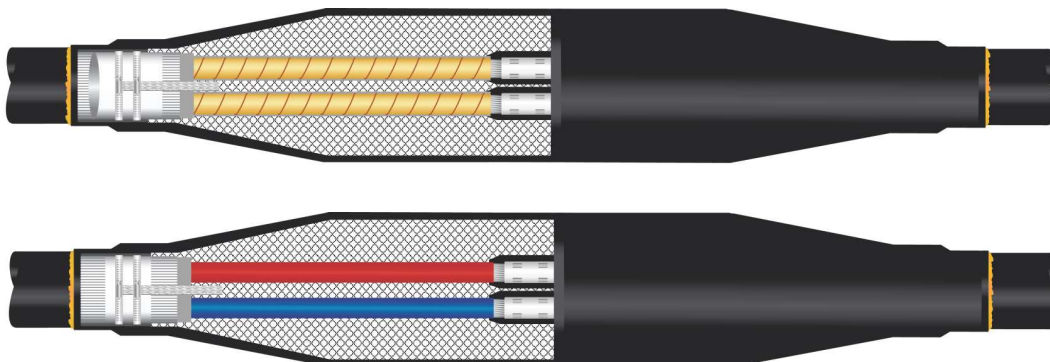
1.1 kV PILC Termination



1.1 kV PVC / XLPE Termination

Features :

- All key inputs are produced in-house
- Corrosion resistant and unlimited shelf life
- In compliance with EN-50393 / IS-13573-1
- Electrolytic grade connectors



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Specifications:

Test Item of Low Tension Heat Shrinkable St. Th. Joint & Termination as per EN-50393 / IS-13573-1

Test	1.1 kV
A.C. Dry Withstand Voltage	4 kV AC
Impulse Voltage Withstand	8 & 20 kV ± Ve 10 Shots

Order Reference for Heat Shrink Terminations Indoor and Outdoor 1.1 kV (for PVC/XLPE/PILC Cable)

1.1 kV, PVC/XLPE Indoor Terminations	Cable Cross Section (mm ²)	Type No.	1.1 kV, PVC/XLPE Outdoor Terminations	Cable Cross Section (mm ²)	Type No.
	4 x 16 - 35	XSE - 01		4 x 16 - 35	XSO - 01
4 x 50 - 95	XSE - 02	4 x 50 - 95	XSO - 02		
4 x 120 - 185	XSE - 03	4 x 120 - 185	XSO - 03		
4 x 225 - 300	XSE - 04	4 x 225 - 300	XSO - 04		
4 x 400 - 500	XSE - 05	4 x 400 - 500	XSO - 05		

1.1kV, PILC Indoor Terminations	Cable Cross Section (mm ²)	Type No.	1.1kV, PILC Outdoor Terminations	Cable Cross Section (mm ²)	Type No.
	4 x 16 - 35	PSE - 01		4 x 16 - 35	PSO - 01
4 x 50 - 95	PSE - 02	4 x 50 - 95	PSO - 02		
4 x 120 - 185	PSE - 03	4 x 120 - 185	PSO - 03		
4 x 225 - 300	PSE - 04	4 x 225 - 300	PSO - 04		
4 x 400 - 500	PSE - 05	4 x 400 - 500	PSO - 05		

In conformance with C 81, VDE 0278 / TAIL I, BS 6346 / 5467, IS 7098 (Part I), IS 1554, IS 694 Type Test Reports Available On Request

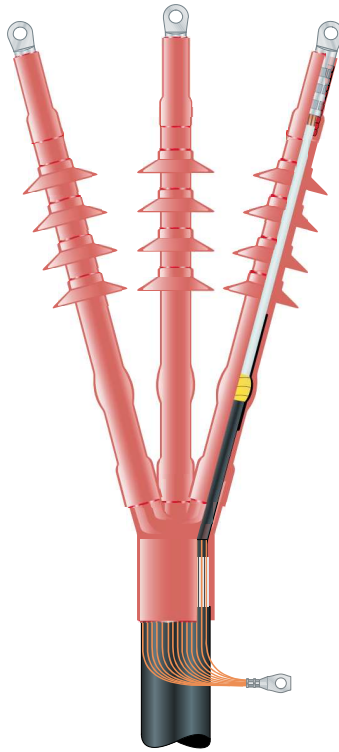
Order Reference for Heat Shrink Joints 1.1 kV (for PVC/XLPE/PILC Cable)

1.1 kV, PVC/XLPE Straight Through Joints	Cable Cross Section (mm ²)	Type No.	1.1 kV, PILC Straight Through Joints	Cable Cross Section (mm ²)	Type No.
	4 x 1.5 - 6	XSSO - 1		4 x 1.5 - 6	PSSO - 1
4 x 10 - 16	XSSO - 2	4 x 10 - 16	PSSO - 2		
4 x 25 - 50	XSSO - 3	4 x 25 - 50	PSSO - 3		
4 x 70 - 150	XSSO - 4	4 x 70 - 150	PSSO - 4		
4 x 185 - 240	XSSO - 5	4 x 185 - 240	PSSO - 5		
4 X 300 - 400	XSSO - 6	4 X 300 - 400	PSSO - 6		

In conformance with C 81, VDE 0278 / TAIL I, BS 6346 / 5467, IS 7098 (Part I), IS 1554, IS 694 Type Test Reports Available On Request

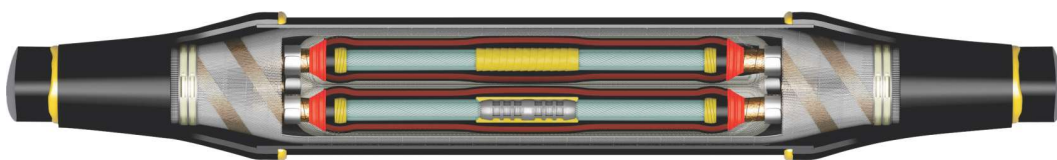
YAMUNA DENSONS Heat Shrink Cable Joints & Terminations

3 Core up to 36kV for XLPE/EPR Insulated Cable (11-22-33kV)
XSE/XSO/XSS



Features :

- All key inputs are produced in-house
- Continuous operation temperature -55°C to 120°C
- Corrosion resistant and unlimited shelf life
- In compliance with IEC-60502-4 / IS-13573
- Electrolytic grade connectors



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Specifications:

Test Item of Heat Shrinkable Straight Through Joint & Termination as per IEC-60502-4 / IS:13573

Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29kV, 5min, no flashover	58kV, 5min, no flashover	86kV, 5min, no flashover
Partial Discharge Test	11kV<10pc (Max.)	22kV<10pc (Max.)	33kV<10pc (Max.)
Thermal Cycles (63 cycles)	under 95-100° C 16kV	under 95-100° C 32kV	under 95-100° C 48kV
Impulse Voltage Test	75kV no flashover	125kV no flashover	170kV no flashover
A.C. Withstand test	16kV, 15 min, no flashover	32kV, 15 min, no flashover	48kV, 15 min, no flashover
Humidity Test (Indoor)	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 8kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 16kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 24kV
Salt Fog Test (Outdoor)	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 24kV no flashover, tracking

Order Reference for Heat Shrink Termination Indoor & Outdoor 3 Core (for XLPE/EPR Insulated Cable)

Termination Type	Cable Cross Section (mm ²)	Type No.	Termination Type	Cable Cross Section (mm ²)	Type No.
	11 kV, 3 core Indoor Terminations	3 x 16 - 50		XSE - 11	11 kV, 3 core Outdoor Terminations
	3 x 70 - 95	XSE - 12		3 x 70 - 95	XSO - 12
	3 x 120 - 185	XSE - 13		3 x 120 - 185	XSO - 13
	3 x 240 - 300	XSE - 14		3 x 240 - 300	XSO - 14
	3 x 400 - 500	XSE - 15		3 x 400 - 500	XSO - 15
22 kV, 3 core Indoor Terminations	3 x 16 - 50	XSE - 21	22 kV, 3 core Outdoor Terminations	3 x 16 - 50	XSO - 21
	3 x 70 - 120	XSE - 22		3 x 70 - 120	XSO - 22
	3 x 150 - 225	XSE - 23		3 x 150 - 225	XSO - 23
	3 x 240 - 400	XSE - 24		3 x 240 - 400	XSO - 24
	3 x 500	XSE - 25		3 x 500	XSO - 25
33 kV, 3 core Indoor Terminations	3 x 25 - 50	XSE - 31	33 kV, 3 core Outdoor Terminations	3 x 25 - 50	XSO - 31
	3 x 70 - 95	XSE - 32		3 x 70 - 95	XSO - 32
	3 x 120 - 185	XSE - 33		3 x 120 - 185	XSO - 33
	3 x 240 - 400	XSE - 34		3 x 240 - 400	XSO - 34

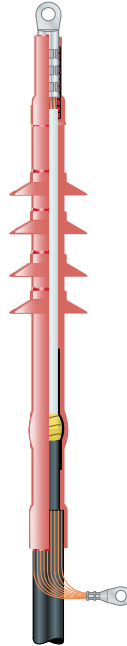
Order Reference for Heat Shrink Joints 3 Core (for XLPE/EPR Insulated Cable)

Joint Type	Cable Cross Section (mm ²)	Type No.	Joint Type	Cable Cross Section (mm ²)	Type No.
	11 kV, 3 core Straight Through Joints	3 x 16 - 50		XSS - 11	22 kV, 3 core Straight Through Joints
	3 x 70 - 95	XSS - 12		3 x 70 - 95	XSS - 22
	3 x 120 - 185	XSS - 13		3 x 120 - 150	XSS - 23
	3 x 240 - 300	XSS - 14		3 x 185 - 240	XSS - 24
	3 x 400	XSS - 15		3 x 300 - 400	XSS - 25
33 kV, 3 core Straight Through Joints	3 x 35 - 70	XSS - 31			
	3 x 95 - 150	XSS - 32			
	3 x 185 - 300	XSS - 33			
	3 x 400	XSS - 34			

YAMUNA DENSON Heat Shrink Cable Joints & Terminations

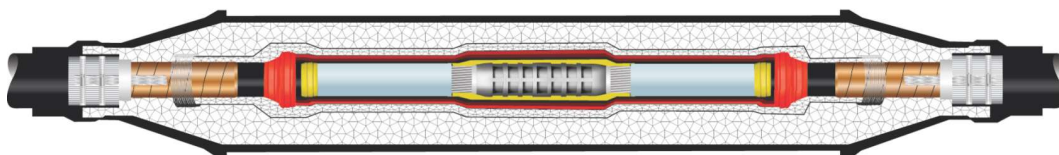
1 Core up to 36kV for XLPE/EPR Insulated Cable (11-22-33kV)

XSES/XSOS/XSSS



Features :

- All key inputs are produced in-house
- Continuous operation temperature -55°C to 120°C
- Corrosion resistant and unlimited shelf life
- In compliance with IEC-60502-4 / IS-13573
- Electrolytic grade connectors



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Specifications:

Test Item of Heat Shrinkable Straight Through Joint & Termination as per IEC-60502-4 / IS:13573

Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29kV, 5min, no flashover	58kV, 5min, no flashover	86kV, 5min, no flashover
Partial Discharge Test	11kV<10pc (Max.)	22kV<10pc (Max.)	33kV<10pc (Max.)
Thermal Cycles (63 cycles)	under 95-100° C 16kV	under 95-100° C 32kV	under 95-100° C 48kV
Impulse Voltage Test	75kV no flashover	125kV no flashover	170kV no flashover
A.C. Withstand Test	16kV, 15 min, no flashover	32kV, 15 min, no flashover	48kV, 15 min, no flashover
Humidity Test (Indoor)	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 8kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 16kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 24kV
Salt Fog Test (Outdoor)	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 24kV no flashover, tracking

Order Reference for Heat Shrink Termination Indoor & Outdoor 1 Core (for XLPE/EPR Insulated Cable)

Termination Type	Cable Cross Section (mm ²)		Type No.
11 kV 1 Core Indoor Terminations	1 x 16 - 50		XSES - 11
	1 x 70 - 120		XSES - 12
	1 x 150 - 300		XSES - 13
	1 x 400 - 630		XSES - 14
	1 x 800 - 1000		XSES - 15
11 kV, 1 core Outdoor Terminations	1 x 25 - 50		XSOS - 11
	1 x 70 - 120		XSOS - 12
	1 x 150 - 300		XSOS - 13
	1 x 400 - 630		XSOS - 14
	1 x 800 - 1000		XSOS - 15
22 kV, 1 core Indoor Terminations	1 x 16 - 50		XSES - 21
	1 x 70 - 150		XSES - 22
	1 x 185 - 300		XSES - 23
	1 x 400 - 630		XSES - 24
	1 x 800 - 1000		XSES - 25
22 kV, 1 core Outdoor Terminations	1 x 16 - 50		XSOS - 21
	1 x 70 - 150		XSOS - 22
	1 x 185 - 300		XSOS - 23
	1 x 400 - 630		XSOS - 24
	1 x 800 - 1000		XSOS - 25
33 kV, 1 core Indoor Terminations	1 x 25 - 50		XSES - 31
	1 x 70 - 185		XSES - 32
	1 x 240 - 400		XSES - 33
	1 x 500 - 800		XSES - 34
	1 x 1000		XSES - 35
33 kV, 1 core Outdoor Terminations	1 x 25 - 50		XSOS - 31
	1 x 70 - 185		XSOS - 32
	1 x 240 - 400		XSOS - 33
	1 x 500 - 800		XSOS - 34
	1 x 1000		XSOS - 35

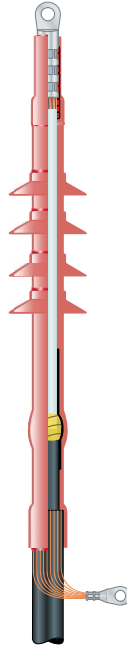
Order Reference for Heat Shrink Joints 1 Core (for XLPE/EPR Insulated Cable)

Joint Type	Cable Cross Section (mm ²)		Type No.
11 kV, 1 core Straight Through Joints	1 x 16 - 50		XSSS - 11
	1 x 70 - 120		XSSS - 12
	1 x 150 - 225		XSSS - 13
	1 x 240 - 300		XSSS - 14
	1 x 400 - 500		XSSS - 15
	1 x 630 - 1000		XSSS - 16
22kV, 1 core Straight Through Joints	1 x 25 - 50		XSSS - 21
	1 x 70 - 150		XSSS - 22
	1 x 185 - 240		XSSS - 23
	1 x 300 - 500		XSSS - 24
	1 x 630 - 800		XSSS - 25
	1 x 1000		XSSS - 26
33 kV, 1 core Straight Through Joints	1 x 35 - 70		XSSS - 31
	1 x 95 - 150		XSSS - 32
	1 x 185 - 400		XSSS - 33
	1 x 500 - 630		XSSS - 34
	1 x 800 - 1000		XSSS - 35

YAMUNA DENSON Heat Shrink Cable Joints & Terminations

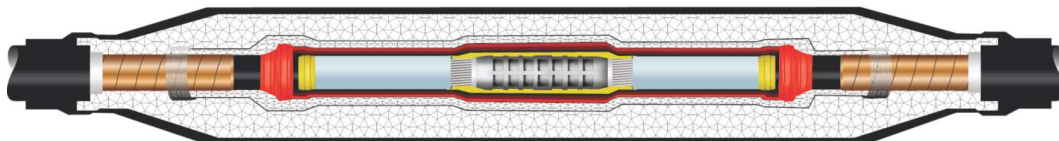
1 Core up to 36kV for Aerial Bunched Cable (11-22-33kV)

XSES-AB/XSOS-AB/XSSS-AB



Features :

- All key inputs are produced in-house
- Continuous operation temperature -55°C to 120°C
- Corrosion resistant and unlimited shelf life
- In compliance with IEC-60502-4 / IS-13573
- Electrolytic grade connectors



Remember



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Specifications:

Test Item of Heat Shrinkable Straight Through Joint & Termination as per IEC-60502-4 / IS:13573

Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29kV, 5min, no flashover	58kV, 5min, no flashover	86kV, 5min, no flashover
Partial Discharge Test	11kV<10pc (Max.)	22kV<10pc (Max.)	33kV<10pc (Max.)
Thermal Cycles (63 cycles)	under 95-100° C 16kV	under 95-100° C 32kV	under 95-100° C 48kV
Impulse Voltage Test	75kV no flashover	125kV no flashover	170kV no flashover
A.C. Withstand Test	16kV, 15 min, no flashover	32kV, 15 min, no flashover	48kV, 15 min, no flashover
Humidity Test (Indoor)	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 8kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 16kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 24kV
Salt Fog Test (Outdoor)	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 24kV no flashover, tracking

Order Reference for Heat Shrink Termination Indoor & Outdoor 1 Core (for Aerial Bunched Cable)

11 kV 1 Core Indoor Terminations	Cable Cross Section (mm ²)	Type No.	11 kV, 1 core Outdoor Terminations	Cable Cross Section (mm ²)	Type No.
	1 x 16 - 50	XSES/AB - 11		1 x 25 - 50	XSOS/AB - 11
1 x 70 - 120	XSES/AB - 12	1 x 70 - 120	XSOS/AB - 12		
1 x 150 - 300	XSES/AB - 13	1 x 150 - 300	XSOS/AB - 13		
1 x 400 - 630	XSES/AB - 14	1 x 400 - 630	XSOS/AB - 14		
1 x 800 - 1000	XSES/AB - 15	1 x 800 - 1000	XSOS/AB - 15		

22 kV, 1 core Indoor Terminations	Cable Cross Section (mm ²)	Type No.	22 kV, 1 core Outdoor Terminations	Cable Cross Section (mm ²)	Type No.
	1 x 16 - 50	XSES/AB - 21		1 x 16 - 50	XSOS/AB - 21
1 x 70 - 120	XSES/AB - 22	1 x 70 - 120	XSOS/AB - 22		
1 x 185 - 300	XSES/AB - 23	1 x 185 - 300	XSOS/AB - 23		
1 x 400 - 630	XSES/AB - 24	1 x 400 - 630	XSOS/AB - 24		
1 x 800 - 1000	XSES/AB - 25	1 x 800 - 1000	XSOS/AB - 25		

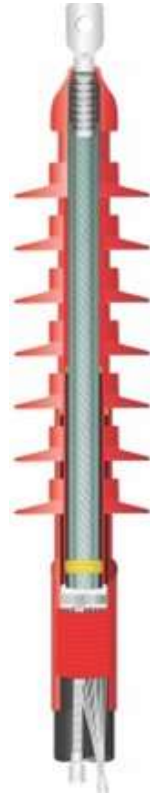
33 kV, 1 core Indoor Terminations	Cable Cross Section (mm ²)	Type No.	33 kV, 1 core Outdoor Terminations	Cable Cross Section (mm ²)	Type No.
	1 x 25 - 50	XSES/AB - 31		1 x 25 - 50	XSOS/AB - 31
1 x 70 - 120	XSES/AB - 32	1 x 70 - 120	XSOS/AB - 32		
1 x 240 - 400	XSES/AB - 33	1 x 240 - 400	XSOS/AB - 33		
1 x 500 - 800	XSES/AB - 34	1 x 500 - 800	XSOS/AB - 34		
1 x 1000	XSES/AB - 35	1 x 1000	XSOS/AB - 35		

Order Reference for Heat Shrink Joints 1 Core (for Aerial Bunched Cable)

11 kV, 1 core Straight Through Joints	Cable Cross Section (mm ²)	Type No.	22kV, 1 core Straight Through Joints	Cable Cross Section (mm ²)	Type No.
	1 x 16 - 50	XSSS/AB - 11		1 x 25 - 50	XSOS/AB - 21
1 x 70 - 120	XSSS/AB - 12	1 x 70 - 150	XSOS/AB - 22		
1 x 150 - 225	XSSS/AB - 13	1 x 185 - 240	XSOS/AB - 23		
1 x 240 - 300	XSSS/AB - 14	1 x 300 - 500	XSOS/AB - 24		
1 x 400 - 500	XSSS/AB - 15	1 x 630 - 800	XSOS/AB - 25		
1 x 600 - 1000	XSSS/AB - 16	1 x 1000	XSOS/AB - 26		

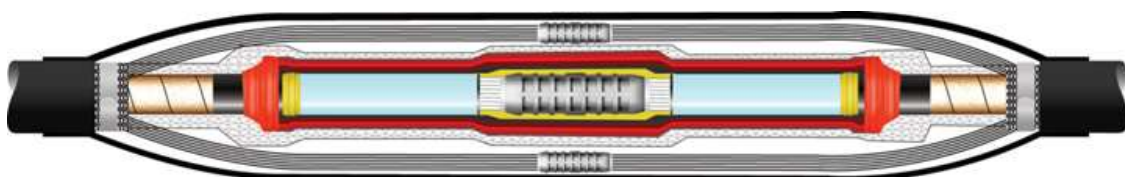
33 kV, 1 core Straight Through Joints	Cable Cross Section (mm ²)	Type No.
	1 x 35 - 70	XSSS/AB - 31
1 x 95 - 150	XSSS/AB - 32	
1 x 185 - 400	XSSS/AB - 33	
1 x 500 - 630	XSSS/AB - 34	
1 x 800 - 1000	XSSS/AB - 35	

YAMUNA DENSON'S Heat Shrink Cable Joints & Terminations
 1 Core, 66/72.5 kV for XLPE Insulated Cable
XSOS/XSSS



Features :

- All key inputs are produced in-house
- Continuous operation temperature -55°C to 120°C
- Corrosion resistant and unlimited shelf life
- In compliance with IEC-60840 / IS-13573
- Electrolytic grade Heavy duty connectors



Remember



CESI



KEMA



Specifications:

Test Item of Heat Shrinkable Straight Through Joint & Termination as per IEC-60840 / IS:13573

Testing Items U o/U	38/66 kV
A.C. Withstand Test	95kV / 15 Min
DC Voltage Test	25 kV / 1 Min
Partial Discharge Test	Less than 5 pC
Impulse Voltage Test	325kV / 10 Shots

Order Reference for Heat Shrink Termination Indoor & Outdoor 1 Core (for XLPE Insulated Cable)

66 kV 1 Core Indoor Terminations	Cable Cross Section (mm ²)	Type No.	66 kV, 1 core Outdoor Terminations	Cable Cross Section (mm ²)	Type No.
	1 x 16 - 50	XSES - 71		1 x 16 - 50	XSOS - 71
1 x 70 - 120	XSES - 72	1 x 70 - 120	XSOS - 72		
1 x 150 - 300	XSES - 73	1 x 150 - 300	XSOS - 73		
1 x 400 - 630	XSES - 74	1 x 400 - 630	XSOS - 74		
1 x 800 - 1000	XSES - 75	1 x 800 - 1000	XSOS - 75		
1 x 1200	XSES - 76	1 x 1200	XSOS - 76		

Order Reference for Heat Shrink Joints 1 Core (for XLPE Insulated Cable)

66 kV, 1 core Straight Through Joints	Cable Cross Section (mm ²)	Type No.
	1 x 16 - 50	XSSS - 71
1 x 70 - 120	XSSS - 72	
1 x 150 - 300	XSSS - 73	
1 x 400 - 630	XSSS - 74	
1 x 800 - 1000	XSSS - 75	
1 x 1200	XSSS - 76	

YAMUNA DENSON'S Cold Shrink Cable Joints & Terminations

4 Core, 0.6/1 kV for XLPE/PVC Insulated Cable.

DCSI/DCSO/DCSJ



Features:

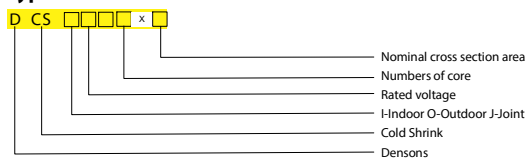
- Simple Structure, pre-fabricated, & factory tested
- Ready to use and easy to install
- Minimises joiner's skills
- Made from LSR, delivering better Electrical and Outdoor Performance
- Small size, no need of expansion, high efficiency

Specifications:

Test Item of 0.6/1 kV Cold Shrink Straight through Joint & Termination

Testing Items U o/U	0.6/1 kV
A.C. Withstand Test	4kV, 5min
Partial Discharge Test	1 kV<10pc (Max.)
Thermal Cycles (63 cycles)	under 95-100° C 16kV
Impulse Voltage Test	8 kV

Type of Terminations



Order Reference for Cold Shrink Terminations Indoor and Outdoor 4 Core (for XLPE/PVC Cable)

0.6/1 kV, 4 core Indoor Terminations	Cable Cross Section (mm ²)	Type No.	0.6/1 kV, 4 core Outdoor Terminations	Cable Cross Section (mm ²)	Type No.
	25 - 50	DCSI 1 - 4 X 1		25 - 50	DCSO 1 - 4 X 1
	70 - 120	DCSI 1 - 4 X 2		70 - 120	DCSO 1 - 4 X 2
	150 - 240	DCSI 1 - 4 X 3		150 - 240	DCSO 1 - 4 X 3
	300 - 400	DCSI 1 - 4 X 4		300 - 400	DCSO 1 - 4 X 4

Order Reference for Cold Shrink Joints 4 Core (for XLPE/PVC Cable)

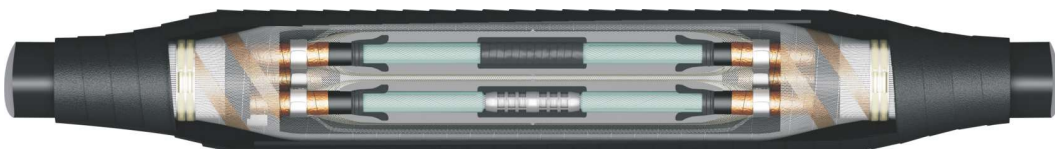
0.6/1 kV, 4 core Straight Through Joints	Cable Cross Section (mm ²)	Type No.
	25 - 50	DCSJ 1 - 4 X 1
	70 - 120	DCSJ 1 - 4 X 2
	150 - 240	DCSJ 1 - 4 X 3
	300 - 400	DCSJ 1 - 4 X 4

YAMUNA DENSON Cold Shrink Cable Joints & Terminations
 1 & 3 Core up to 36kV for XLPE/EPR Insulated Cable (11-22-33kV)
DCSI/DCSO/DCSJ



Features:

- Simple Structure, pre-fabricated, & factory tested
- Ready to use and easy to install
- Minimises joiner's skills
- Made from LSR, delivering better Electrical and Outdoor Performance
- In compliance with IEC-60502-4 / IS:13573

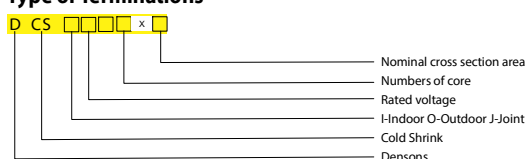


Specifications:

Test Item of Cold Shrink Straight through Joint & Termination as per IEC-60502-4 / IS:13573

Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29kV, 5min, no flashover	58kV, 5min, no flashover	86kV, 5min, no flashover
Partial Discharge Test	11kV<10pc (Max.)	22kV<10pc (Max.)	33kV<10pc (Max.)
Thermal Cycles (63 cycles)	under 95-100° C 16kV	under 95-100° C 32kV	under 95-100° C 48kV
Impulse Voltage Test	75kV no flashover	125kV no flashover	170kV no flashover
A.C. Withstand Test	16kV, 15 min, no flashover	32kV, 15 min, no flashover	48kV, 15 min, no flashover
Humidity Test (Indoor)	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 8kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 16kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 24kV
Salt Fog Test (Outdoor)	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 24kV no flashover, tracking

Type of Terminations



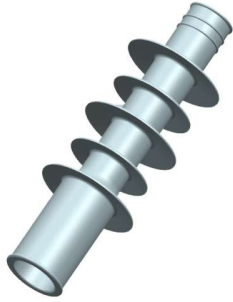
Order Reference for Cold Shrink Terminations Indoor and Outdoor 3 Core (for XLPE Cable)

	Cable Cross Section (mm ²)	Type No.		Cable Cross Section (mm ²)	Type No.
11 kV, 3 core Indoor Terminations	25 - 50	DCSI 11 - 3 X 1	11 kV, 3 core Outdoor Terminations	25 - 50	DCSO 11 - 3 X 1
	70 - 120	DCSI 11 - 3 X 2		70 - 120	DCSO 11 - 3 X 2
	150 - 240	DCSI 11 - 3 X 3		150 - 240	DCSO 11 - 3 X 3
	300 - 500	DCSI 11 - 3 X 4		300 - 500	DCSO 11 - 3 X 4
22 kV, 3 core Indoor Terminations	35 - 70	DCSI 22 - 3 X 1	22 kV, 3 core Outdoor Terminations	35 - 70	DCSO 22 - 3 X 1
	95 - 150	DCSI 22 - 3 X 2		95 - 150	DCSO 22 - 3 X 2
	185 - 300	DCSI 22 - 3 X 3		185 - 300	DCSO 22 - 3 X 3
	400 - 630	DCSI 22 - 3 X 4		400 - 630	DCSO 22 - 3 X 4
33 kV, 3 core Indoor Terminations	50 - 95	DCSI 33 - 3 X 1	33 kV, 3 core Outdoor Terminations	50 - 95	DCSO 33 - 3 X 1
	120 - 185	DCSI 33 - 3 X 2		120 - 185	DCSO 33 - 3 X 2
	240 - 400	DCSI 33 - 3 X 3		240 - 400	DCSO 33 - 3 X 3
	500 - 630	DCSI 33 - 3 X 4		500 - 630	DCSO 33 - 3 X 4

Order Reference for Cold Shrink Joints 1 & 3 Core (for XLPE Cable)

	Cable Cross Section (mm ²)	Type No.		Cable Cross Section (mm ²)	Type No.
11 kV, 1 core Straight Through Joints	50 - 70	DCSJ 11 - 1 X 1	11 kV, 3 core Straight Through Joints	50 - 70	DCSJ 11 - 3 X 1
	95 - 150	DCSJ 11 - 1 X 2		95 - 150	DCSJ 11 - 3 X 2
	185 - 300	DCSJ 11 - 1 X 3		185 - 300	DCSJ 11 - 3 X 3
	400 - 630	DCSJ 11 - 1 X 4		400	DCSJ 11 - 3 X 4
22 kV, 1 core Straight Through Joints	35 - 70	DCSJ 22 - 1 X 1	22 kV, 3 core Straight Through Joints	35 - 70	DCSJ 22 - 3 X 1
	95 - 150	DCSJ 22 - 1 X 2		95 - 150	DCSJ 22 - 3 X 2
	185 - 300	DCSJ 22 - 1 X 3		185 - 300	DCSJ 22 - 3 X 3
	400 - 630	DCSJ 22 - 1 X 4		400 - 630	DCSJ 22 - 3 X 4
33 kV, 1 core Straight Through Joints	50 - 95	DCSJ 33 - 1 X 1	33 kV, 3 core Straight Through Joints	50 - 95	DCSJ 33 - 3 X 1
	120 - 185	DCSJ 33 - 1 X 2		120 - 185	DCSJ 33 - 3 X 2
	240 - 400	DCSJ 33 - 1 X 3		240 - 400	DCSJ 33 - 3 X 3
	500 - 630	DCSJ 33 - 1 X 4		500	DCSJ 33 - 3 X 4

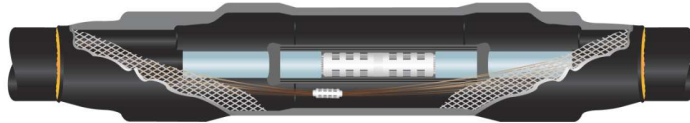
YAMUNA DENSON'S Pre Moulded Cable Joints & Terminations
 1 & 3 Core up to 36kV for XLPE/EPR Insulated Cable (11-22-33kV)
DPMI/DPMO/DPMS



Termination Body



Joint Body



Features :

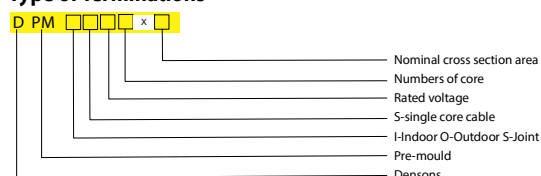
- Cold-applied
- No Special Tools
- Constant Radial Pressure
- In Built Stress Control Arrangement
- Unlimited Shelf Life
- In compliance with IEC-60502-4

Specifications:

Test Item of Pre Moulded Straight Through Joint & Termination as per IEC-60502-4 / IS:13573

Testing Items U o/U	6.35/11 kV	12.7/22 kV	19/33 kV
A.C. Withstand Test	29kV, 5min, no flashover	58kV, 5min, no flashover	86kV, 5min, no flashover
Partial Discharge Test	11kV<10pc (Max.)	22kV<10pc (Max.)	33kV<10pc (Max.)
Thermal Cycles (63 cycles)	under 95-100° C 16kV	under 95-100° C 32kV	under 95-100° C 48kV
Impulse Voltage Test	75kV no flashover	125kV no flashover	170kV no flashover
A.C. Withstand Test	16kV, 15 min, no flashover	32kV, 15 min, no flashover	48kV, 15 min, no flashover
Humidity Test (Indoor)	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 8kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 16kV	No flashover, tracking erosion or mechanical damage occurred at 300hrs, 24kV
Salt Fog Test (Outdoor)	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 8kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 16kV no flashover, tracking	No flashover, tracking erosion or mechanical damage occurred at 1000hrs, 24kV no flashover, tracking

Type of Terminations



Order Reference for 11, 22 & 33 kV, Pre-moulded Indoor Terminations 1 & 3 Core (for XLPE Cable)

Cable Cross Section (mm ²) 11 kV, Indoor, 1 Core	Cable Cross Section (mm ²) 11 kV, Indoor, 3 Core	Cable Cross Section (mm ²) 22 kV, Indoor, 1 Core	Cable Cross Section (mm ²) 22 kV, Indoor, 3 Core	Cable Cross Section (mm ²) 33 kV, Indoor, 1 Core	Cable Cross Section (mm ²) 33 kV, Indoor, 3 Core
DPMIS 11 - 1 X 50	DPMI 11 - 3 X 50	DPMIS 22 - 1 X 50	DPMI 22 - 3 X 50	DPMIS 33 - 1 X 50	DPMI 33 - 3 X 50
DPMIS 11 - 1 X 70	DPMI 11 - 3 X 70	DPMIS 22 - 1 X 70	DPMI 22 - 3 X 70	DPMIS 33 - 1 X 70	DPMI 33 - 3 X 70
DPMIS 11 - 1 X 95	DPMI 11 - 3 X 95	DPMIS 22 - 1 X 95	DPMI 22 - 3 X 95	DPMIS 33 - 1 X 95	DPMI 33 - 3 X 95
DPMIS 11 - 1 X 120	DPMI 11 - 3 X 120	DPMIS 22 - 1 X 120	DPMI 22 - 3 X 120	DPMIS 33 - 1 X 120	DPMI 33 - 3 X 120
DPMIS 11 - 1 X 150	DPMI 11 - 3 X 150	DPMIS 22 - 1 X 150	DPMI 22 - 3 X 150	DPMIS 33 - 1 X 150	DPMI 33 - 3 X 150
DPMIS 11 - 1 X 185	DPMI 11 - 3 X 185	DPMIS 22 - 1 X 185	DPMI 22 - 3 X 185	DPMIS 33 - 1 X 185	DPMI 33 - 3 X 185
DPMIS 11 - 1 X 240	DPMI 11 - 3 X 240	DPMIS 22 - 1 X 240	DPMI 22 - 3 X 240	DPMIS 33 - 1 X 240	DPMI 33 - 3 X 240
DPMIS 11 - 1 X 300	DPMI 11 - 3 X 300	DPMIS 22 - 1 X 300	DPMI 22 - 3 X 300	DPMIS 33 - 1 X 300	DPMI 33 - 3 X 300
DPMIS 11 - 1 X 400	DPMI 11 - 3 X 400	DPMIS 22 - 1 X 400	DPMI 22 - 3 X 400	DPMIS 33 - 1 X 400	DPMI 33 - 3 X 400
DPMIS 11 - 1 X 500	DPMI 11 - 3 X 500	DPMIS 22 - 1 X 500	DPMI 22 - 3 X 500	DPMIS 33 - 1 X 500	DPMI 33 - 3 X 500

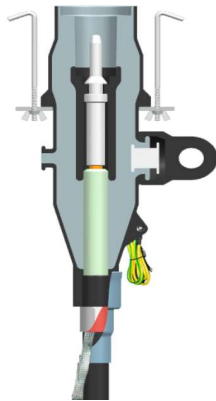
Order Reference for 11, 22 & 33 kV, Pre-moulded Outdoor Terminations 1 & 3 Core (for XLPE Cable)

Cable Cross Section (mm ²) 11 kV, Outdoor, 1 Core	Cable Cross Section (mm ²) 11 kV, Outdoor, 3 Core	Cable Cross Section (mm ²) 22 kV, Outdoor, 1 Core	Cable Cross Section (mm ²) 22 kV, Outdoor, 3 Core	Cable Cross Section (mm ²) 33 kV, Outdoor, 1 Core	Cable Cross Section (mm ²) 33 kV, Outdoor, 3 Core
DPMOS 11 - 1 X 50	DPMO 11 - 3 X 50	DPMOS 22 - 1 X 50	DPMO 22 - 3 X 50	DPMOS 33 - 1 X 50	DPMO 33 - 3 X 50
DPMOS 11 - 1 X 70	DPMO 11 - 3 X 70	DPMOS 22 - 1 X 70	DPMO 22 - 3 X 70	DPMOS 33 - 1 X 70	DPMO 33 - 3 X 70
DPMOS 11 - 1 X 95	DPMO 11 - 3 X 95	DPMOS 22 - 1 X 95	DPMO 22 - 3 X 95	DPMOS 33 - 1 X 95	DPMO 33 - 3 X 95
DPMOS 11 - 1 X 120	DPMO 11 - 3 X 120	DPMOS 22 - 1 X 120	DPMO 22 - 3 X 120	DPMOS 33 - 1 X 120	DPMO 33 - 3 X 120
DPMOS 11 - 1 X 150	DPMO 11 - 3 X 150	DPMOS 22 - 1 X 150	DPMO 22 - 3 X 150	DPMOS 33 - 1 X 150	DPMO 33 - 3 X 150
DPMOS 11 - 1 X 185	DPMO 11 - 3 X 185	DPMOS 22 - 1 X 185	DPMO 22 - 3 X 185	DPMOS 33 - 1 X 185	DPMO 33 - 3 X 185
DPMOS 11 - 1 X 240	DPMO 11 - 3 X 240	DPMOS 22 - 1 X 240	DPMO 22 - 3 X 240	DPMOS 33 - 1 X 240	DPMO 33 - 3 X 240
DPMOS 11 - 1 X 300	DPMO 11 - 3 X 300	DPMOS 22 - 1 X 300	DPMO 22 - 3 X 300	DPMOS 33 - 1 X 300	DPMO 33 - 3 X 300
DPMOS 11 - 1 X 400	DPMO 11 - 3 X 400	DPMOS 22 - 1 X 400	DPMO 22 - 3 X 400	DPMOS 33 - 1 X 400	DPMO 33 - 3 X 400
DPMOS 11 - 1 X 500	DPMO 11 - 3 X 500	DPMOS 22 - 1 X 500	DPMO 22 - 3 X 500	DPMOS 33 - 1 X 500	DPMO 33 - 3 X 500

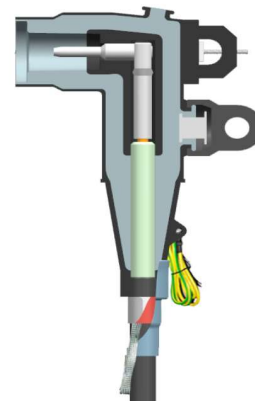
Order Reference for 11, 22 & 33 kV, Pre-moulded Joints, 1 & 3 Core (for XLPE Cable)

Cable Cross Section (mm ²) 11 kV, Joint, 1 Core	Cable Cross Section (mm ²) 11 kV, Joint, 3 Core	Cable Cross Section (mm ²) 22 kV, Joint, 1 Core	Cable Cross Section (mm ²) 22 kV, Joint, 3 Core	Cable Cross Section (mm ²) 33 kV, Joint, 1 Core	Cable Cross Section (mm ²) 33 kV, Joint, 3 Core
DPMS 11 - 1 X 50	DPMS 11 - 3 X 50	DPMS 22 - 1 X 50	DPMS 22 - 3 X 50	DPMS 33 - 1 X 50	DPMS 33 - 3 X 50
DPMS 11 - 1 X 70	DPMS 11 - 3 X 70	DPMS 22 - 1 X 70	DPMS 22 - 3 X 70	DPMS 33 - 1 X 70	DPMS 33 - 3 X 70
DPMS 11 - 1 X 95	DPMS 11 - 3 X 95	DPMS 22 - 1 X 95	DPMS 22 - 3 X 95	DPMS 33 - 1 X 95	DPMS 33 - 3 X 95
DPMS 11 - 1 X 120	DPMS 11 - 3 X 120	DPMS 22 - 1 X 120	DPMS 22 - 3 X 120	DPMS 33 - 1 X 120	DPMS 33 - 3 X 120
DPMS 11 - 1 X 150	DPMS 11 - 3 X 150	DPMS 22 - 1 X 150	DPMS 22 - 3 X 150	DPMS 33 - 1 X 150	DPMS 33 - 3 X 150
DPMS 11 - 1 X 185	DPMS 11 - 3 X 185	DPMS 22 - 1 X 185	DPMS 22 - 3 X 185	DPMS 33 - 1 X 185	DPMS 33 - 3 X 185
DPMS 11 - 1 X 240	DPMS 11 - 3 X 240	DPMS 22 - 1 X 240	DPMS 22 - 3 X 240	DPMS 33 - 1 X 240	DPMS 33 - 3 X 240
DPMS 11 - 1 X 300	DPMS 11 - 3 X 300	DPMS 22 - 1 X 300	DPMS 22 - 3 X 300	DPMS 33 - 1 X 300	DPMS 33 - 3 X 300
DPMS 11 - 1 X 400	DPMS 11 - 3 X 400	DPMS 22 - 1 X 400	DPMS 22 - 3 X 400	DPMS 33 - 1 X 400	DPMS 33 - 3 X 400
DPMS 11 - 1 X 500	DPMS 11 - 3 X 500	DPMS 22 - 1 X 500	DPMS 22 - 3 X 500	DPMS 33 - 1 X 500	DPMS 33 - 3 X 500

YAMUNA DENSON'S Pre Moulded Elbow & Straight Connectors
 up to 24kV 250A for XLPE/EPR Insulated Cable (15-24kV)
DECR/DECS (for Type-A Bushing)



Straight Connector



Elbow Connector

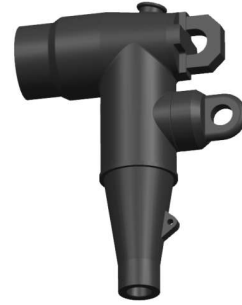
Features :

- Safe to touch
- Capacitive test point
- Faster installation
- Non-corrosive and UV resistant
- In-built stress control offering high stress control properties
- Outstanding mechanical, chemical & electrical properties
- Unlimited shelf-life
- In compliance with IEC-60502-4

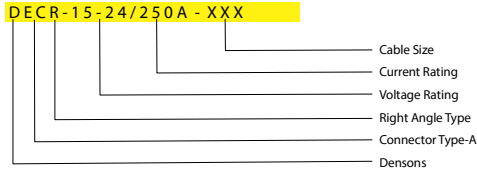
Dimension Chart for Pre Moulded Elbow Connectors up to 24 kV 250A

DECR	Elbow Connectors 24 kV 250A		
Power Function	Rated Voltage	15kV	24kV
	Rated Current	250A	250A
	Frequency Withstand Voltage	39kV/5min	54kV/5min
	Partial Discharge	15kV ≤10pC	20kV ≤10pC
	Impulse Voltage (± 10 time)	95kV	125kV
	Overcurrent (max. = 8h)	300A	300A
	Screen Resistance	≤5000Ω	≤5000Ω
	Application Cable (x-section)	25-120mm ²	25-120mm ²

Remarks: Comply with IEC 60502-4 requirements



Type of Terminations



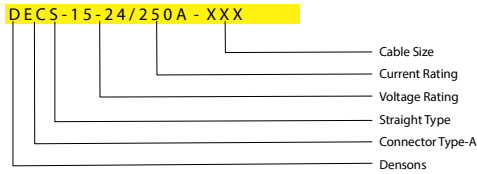
Dimension Chart for Pre Moulded Straight Connectors upto 24 kV 250A

DECS	Straight Connectors 24 kV 250A		
Power Function	Rated Voltage	15kV	24kV
	Rated Current	250A	250A
	Frequency Withstand Voltage	39kV/5min	54kV/5min
	Partial Discharge	15kV ≤10pC	20kV ≤10pC
	Impulse Voltage (± 10 time)	95kV	125kV
	Overcurrent (max. = 8h)	300A	300A
	Screen Resistance	≤5000Ω	≤5000Ω
	Application Cable (x-section)	25-120mm ²	25-120mm ²

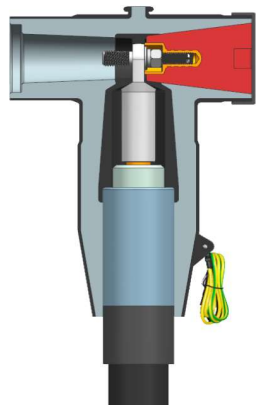
Remarks: Comply with IEC 60502-4 requirements



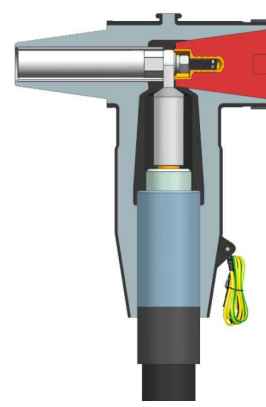
Type of Terminations



YAMUNA DENSON'S Pre Moulded T-Connector (Front & Rear)
 up to 36kV 630A/800A/1250A for XLPE/EPR Insulated Cable
DSCS (for Type-C Bushing)



Front Connector



Rear Connector

Features :

- Safe to touch
- Capacitive test point
- Faster installation
- Non-corrosive and UV resistant
- In-built stress control offering high stress control properties
- Outstanding mechanical, chemical & electrical properties
- Unlimited shelf-life
- In compliance with IEC-60502-4

Specifications:

Dimension Chart for Pre Moulded T Connectors up to 36kV 630A/800A/1250A

Technical Parameter	T-Connector, 11kV, 630A	T-Connector, 15kV, 630A	T-Connector, 22kV, 630A	T-Connector, 33kV, 630A
Item	Parameter	Parameter	Parameter	Parameter
Cable	6.35/11 kV	8.7/15kV	12.7/22kV	19/33kV
System Voltage	12kV	17.5kV	24kV	36kV
Rated Current	630A	630A	630A	630A/800A/1250A
Partial Discharge	11kV/ ≤10pC	15kV/ ≤10pC	22kV/ ≤10pC	33kV/ ≤10pC
A.C. Withstand Test	29kV/5min.	39.2kV/5min.	57.2kV/5min.	85.5kV/5min.

Selection Table for T-Connector 11kV 630A with DIN Compression Lugs

Cross Section mm ²	11 kV, Insulation Diameter		Reference Number Conductor Material	
	min.	max.	Al.	Cu.
25	14.0 mm	16.0 mm	DSCS-6001	DSCS-6012
35	14.0 mm	16.0 mm	DSCS-6002	DSCS-6013
50	15.0 mm	17.0 mm	DSCS-6003	DSCS-6014
70	15.0 mm	17.0 mm	DSCS-6004	DSCS-6015
95	18.0 mm	20.0 mm	DSCS-6005	DSCS-6016
120	19.0 mm	22.0 mm	DSCS-6006	DSCS-6017
150	21.0 mm	24.0 mm	DSCS-6007	DSCS-6018
185	22.0 mm	25.0 mm	DSCS-6008	DSCS-6019
240	24.0 mm	27.0 mm	DSCS-6009	DSCS-6020
300	28.0 mm	31.0 mm	DSCS-6010	DSCS-6021
400	29.0 mm	32.0 mm	DSCS-6011	DSCS-6022
500	32.0 mm	36.0 mm	DSCS-6011A	DSCS-6023
630	36.0 mm	38.0 mm	DSCS-6011B	DSCS-6024

Selection Table for T-Connector 15kV 630A with DIN Compression Lugs

Cross Section mm ²	15 kV, Insulation Diameter		Reference Number Conductor Material	
	min.	max.	Al.	Cu.
25	16.0 mm	17.8 mm	DSCS-6101	DSCS-6112
35	17.0 mm	20.0 mm	DSCS-6102	DSCS-6113
50	17.0 mm	20.0 mm	DSCS-6103	DSCS-6114
70	20.0 mm	23.1 mm	DSCS-6104	DSCS-6115
95	20.0 mm	23.1 mm	DSCS-6105	DSCS-6116
120	23.1 mm	26.1 mm	DSCS-6106	DSCS-6117
150	23.1 mm	26.1 mm	DSCS-6107	DSCS-6118
185	25.8 mm	30.8 mm	DSCS-6108	DSCS-6119
240	25.8 mm	30.8 mm	DSCS-6109	DSCS-6120
300	30.4 mm	32.3 mm	DSCS-6110	DSCS-6121
400	33.0 mm	35.4 mm	DSCS-6111	DSCS-6122
500	36.5 mm	37.5 mm	DSCS-6111A	DSCS-6123
630	37.0 mm	39.5 mm	DSCS-6111B	DSCS-6124

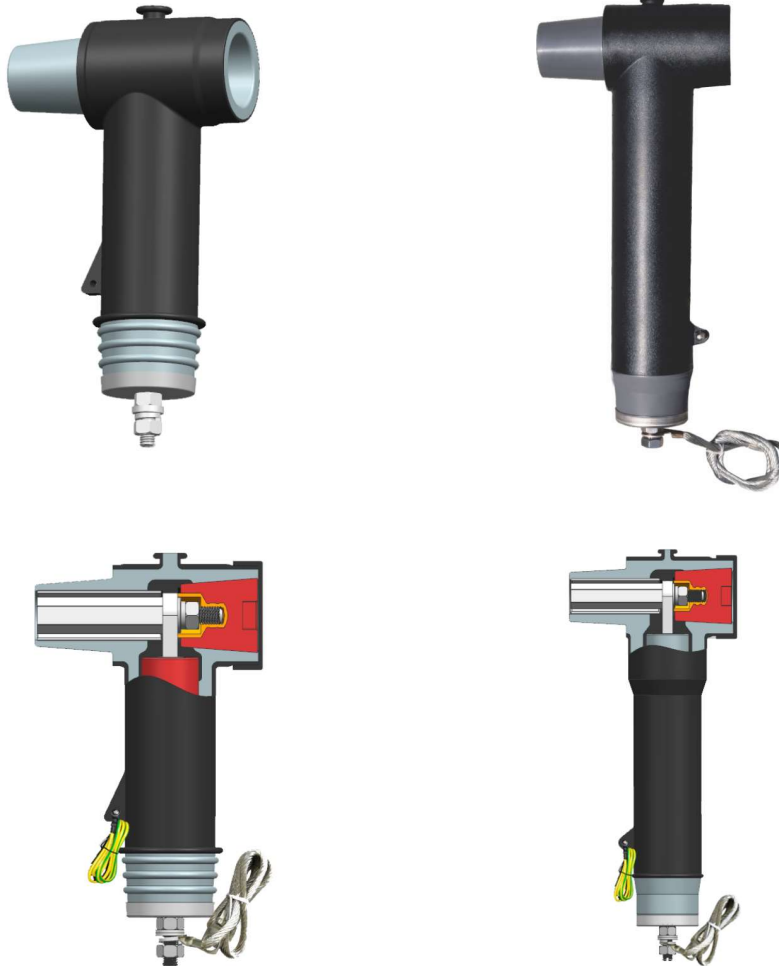
Selection Table for T-Connector 24kV 630A with DIN Compression Lugs

Cross Section mm ²	24 kV, Insulation Diameter		Reference Number Conductor Material	
	min.	max.	Al.	Cu.
35	17.0 mm	20.0 mm	DSCS-6201	DSCS-6212
50	20.0 mm	23.1 mm	DSCS-6202	DSCS-6213
70	20.0 mm	23.1 mm	DSCS-6203	DSCS-6214
95	23.1 mm	26.1 mm	DSCS-6204	DSCS-6215
120	23.1 mm	26.1 mm	DSCS-6205	DSCS-6216
150	25.8 mm	30.8 mm	DSCS-6206	DSCS-6217
185	25.8 mm	30.8 mm	DSCS-6207	DSCS-6218
240	30.4 mm	32.3 mm	DSCS-6208	DSCS-6219
300	32.0 mm	35.4 mm	DSCS-6209	DSCS-6220
400	33.0 mm	35.4 mm	DSCS-6210	DSCS-6221
500	36.5 mm	37.5 mm	DSCS-6211	DSCS-6222
630	39.5 mm	43.5 mm	DSCS-6211A	DSCS-6223

Selection Table for T-Connector 36kV 630A/800A/1250A with DIN Compression Lugs

Cross Section mm ²	36 kV, Insulation Diameter		Reference Number Conductor Material	
	min.	max.	Al.	Cu.
35	25.0 mm	25.0 mm	DSCS-6301	DSCS-6312
50	26.3 mm	29.5 mm	DSCS-6302	DSCS-6313
70	26.3 mm	29.5 mm	DSCS-6303	DSCS-6314
95	26.3 mm	29.5 mm	DSCS-6304	DSCS-6315
120	30.9 mm	34.0 mm	DSCS-6305	DSCS-6316
150	30.9 mm	34.0 mm	DSCS-6306	DSCS-6317
185	30.9 mm	34.0 mm	DSCS-6307	DSCS-6318
240	36.3 mm	38.5 mm	DSCS-6308	DSCS-6319
300	36.3 mm	38.5 mm	DSCS-6309	DSCS-6320
400	41.5 mm	44.7 mm	DSCS-6310	DSCS-6321
500	41.5 mm	44.7 mm	DSCS-6311	DSCS-6322
630	43.0 mm	46.0 mm	DSCS-6311A	DSCS-6323

YAMUNA DENSON'S T-Type Connector (Rear) with Surge Arrester
 for XLPE/EPR Insulated Cable (15-24-35 kV)
DSCSA (for Type-C Elbow)



Features :

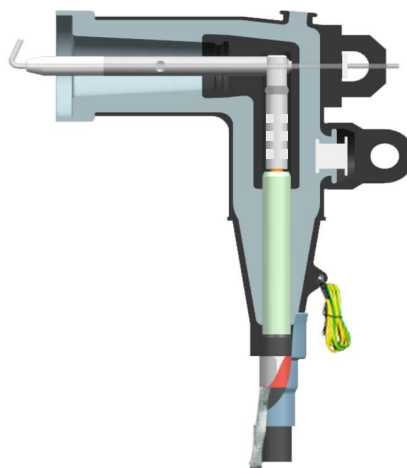
- Applied for SF₆ gas insulated RMU
- Applied for cable branch unit and transformer
- Faster installation
- In compliance with IEC-60099-4
- Outer sheath is made of Silicone or EPDM rubber
- Ensure safe operation of Electrical equipments

Installation

- No special tool or heating to be needed
- Connector may be energized immediately after installation.

YAMUNA DENSONS Elbow Connectors

15 kV 200A for XLPE/EPR Insulated Cable



Features :

- Fully Shielded & Safe to touch
- Capacitive test point
- Faster installation
- Suitable for Bushing
- Unlimited shelf-life
- In compliance with IEC-60502

Electrical Performance

Performance	15 kV
Rated Voltage	200A
AC Withstand Voltage	42kV/5min
Partial Discharge	15kV<10pc
Lighting Impact Voltage	95kV (±times)
Breaking Current	14.4kV, 200A, 10times
Shield Resistance	<5000 Ω
Applicable Cable Cross Section	25-120mm ²

Note: This product meets the requirements of IEC 60502.

YAMUNA DENSON'S Top Bus-Bar

Flexible Cable Connection System 15-24-35 kV (630A/1250A)

DJCL/DCCL/DRACS/DJTL (for Type-C Bushing)



J Type Connector/L
(DJCL-101/DJCL-201)



Cross Connector/Long Version
(DCCL-101/DCCL-201)



T-shape Connector
(DTCL-101/DTCL-201)



Right Angle Type Connector/Short Version
(DRACS-101/DRACS-201)



Bus Bar Flexible Cable



J Type Connector/S
(DJTL-101/DJCS-201)

Application:

- Suitable for 8.7/15kV, 12/20kV, 18/30 kV
- Top connection for RMU
- Suitable for the connection to the bushing of $\Phi 46\text{mm}/\Phi 56\text{mm}/91.5\text{mm}/\text{M16}$ with complete sealing function
- In compliance with IEC-60502-4

Installation

- No special tool or heating needed
- Connector may be energized immediately after installation

YAMUNA DENSON Top Bus-Bar

Hard Metal Connection System 15-24-35 kV (630A/1250A)

DJCS/DCCS (for Type-C Bushing)



J Type Connector
(DJCS-101/DJCS-201)



Cross Type Connector
(DCCS-101/DCCS-201)



Bus Bar Connector



Application:

- Suitable for 8.7/15kV, 12/20kV/ 18/30 kV
- Top connection for RMU
- Suitable for the connection to the bushing of $\phi 46\text{mm}/\phi 56\text{mm}/91.5\text{mm}/\text{M16}$ with complete sealing function.
- In compliance with IEC-60502-4.

Installation

- No special tool or heating needed
- Connector may be energized immediately after installation

Technical Data for 630A Top Bus-Bar Hard Metal Connection System

Performance	DJCS (DCCS)-101	DJCS (DCCS)-201
Rated Voltage	8.7/15 (17.5) kV	12/20 (24) kV
Operating Voltage/max.	17.5kV	24kV
Continuous Rated Current	630A	630A
Partial Discharge	15kV/ $\leq 10\text{pC}$	21kV/ $\leq 10\text{pC}$
A.C. Withstand Voltage	39kV/5min	54kV/5min

YAMUNA DENSON'S Side Extension Bus-Bar Connector

15-24 kV (630A/1250A)

DSEB



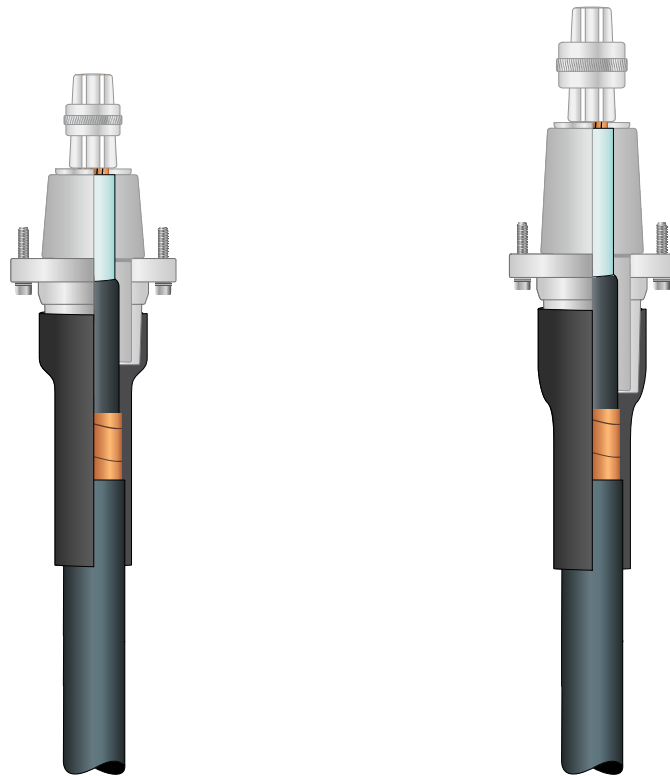
Features :

- Fully shielded and sealed connection
- Made of High quality silicone rubber
- Excellent electrical properties
- Perfectly series connection for the combined RMU

Technical Data for Side Extension Bus-Bar Connector

Rated Voltage	15 kV	24 kV
Rated Current	630/1250A	630/1250A
AC Withstand Voltage	48kV/1min.	65kV/1min.
Partial Discharge	15kV<10pc	20kV<10pc
Lightning Impact Voltage	105kV (±times)	125kV (±times)
Temperature	<65K	<65K
Shield Resistance	<5000 ohm	<5000 ohm

YAMUNA DENSONS GIS Plug In Terminations up to 42kV for **XLPE/EPR Insulated Cable (26/36kV)** **DGIS (for Socket Size 1, 2 & 3)**



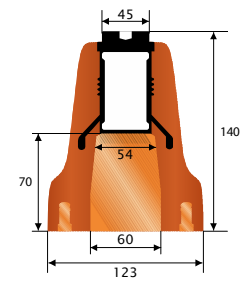
Features :

- Factory moulded and 100% tested
- Dry type
- Metal-enclosed and suitable for outdoor use
- Optional voltage detection point
- Robust with high mechanical properties
- In compliance with IEC-60840 & 62271-209

Type Table Option for 1# Inner Core Plug In Terminations

Type	26/35kV Cable Conductor Cross Section(mm ²)	Adaptor size
DGIS-1-35/50	50	Φ27
DGIS-1-35/70	70	Φ30
DGIS-1-35/95	95	Φ30
DGIS-1-35/120	120	Φ30
DGIS-1-35/150	150	Φ33
		Φ33

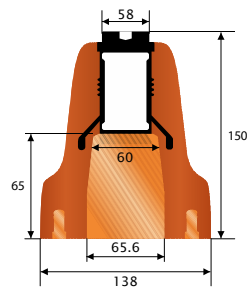
1# INNER CORE SOCKET



Type Table Option for 2# Inner Core Plug In Terminations

Type	26/35kV Cable Conductor Cross Section(mm ²)	Adaptor size
DGIS-2-35/50	50	Φ27
DGIS-2-35/70	70	Φ30
DGIS-2-35/95	95	Φ30
DGIS-2-35/120	120	Φ30
DGIS-2-35/150	150	Φ33
DGIS-2-35/185	185	Φ33
DGIS-2-35/240	240	Φ33
DGIS-2-35/300	300	Φ37
DGIS-2-35/400	400	Φ37
		Φ37
		Φ37

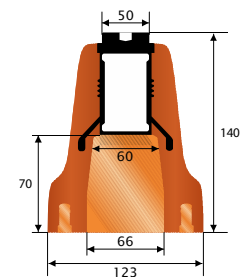
2# INNER CORE SOCKET



Type Table Option for 2S# Inner Core Plug In Terminations

Type	26/35kV Cable Conductor Cross Section(mm ²)	Adaptor size
DGIS-2S-35/50	50	Φ27
DGIS-2S-35/70	70	Φ30
DGIS-2S-35/95	95	Φ30
DGIS-2S-35/120	120	Φ30
DGIS-2S-35/150	150	Φ33
DGIS-2S-35/185	185	Φ33
DGIS-2S-35/240	240	Φ33
DGIS-2S-35/300	300	Φ37
DGIS-2S-35/400	400	Φ37
		Φ37
		Φ37

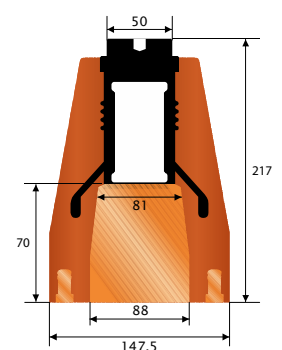
2S# INNER CORE SOCKET



Type Table Option for 3# Inner Core Plug-in Termination

Type	26/35kV Cable Conductor Cross Section(mm ²)	Adaptor size
DGIS-3-35/35	35	Φ27
DGIS-3-35/50	50	Φ27
DGIS-3-35/70	70	Φ30.5
DGIS-3-35/95	95	Φ30.5
DGIS-3-35/120	120	Φ30.5
DGIS-3-35/150	150	Φ33
DGIS-3-35/185	185	Φ33
DGIS-3-35/240	240	Φ33
DGIS-3-35/300	300	Φ38.5
DGIS-3-35/400	400	Φ38.5
DGIS-3-35/500	500	Φ38.5
		Φ40.5
		Φ40.5

3# INNER CORE SOCKET



YAMUNA DENSONS Heat Shrinkable Anti Tracking Tubing upto 66 kV

Features :

- Reduces bus bar clearance requirements
- Protects against accidental flashover
- Continuous operation temperature: -40°C to 125°C
- Halogen free
- Shrink Temperature: 120°C
- Anti tracking
- Suitable for switchgear applications



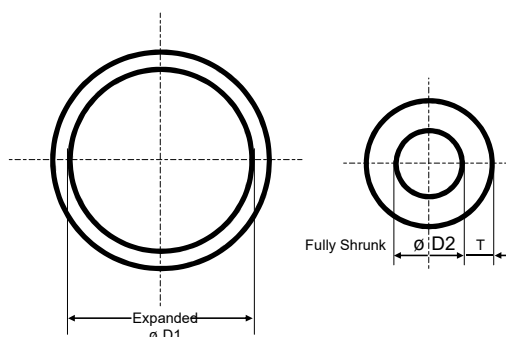
Cross linked Polyolefin Medium and Heavy Wall Anti-track Heat Shrinkable Tubing specifically designed for insulating medium voltage bus bar.

Specifications:

Dimension Chart for Heat Shrink Anti Tracking Tubing

Code	As Supplied ø D1 (max.)	After Recovered ø D2 (max.)	T (min.)
DSRU - 30/10	30	10	2.6
DSRU - 36/12	36	12	3.0
DSRU - 50/19	50	19	3.0
DSRU - 60/29	60	29	3.0
DSRU - 76/38	76	38	3.0
DSRU - 100/49	100	49	3.0
DSRU - 130/50	130	50	4.0

Note: All dimensions are in mm



Technical Data for Heat Shrink Non- Tracking Tubing (Red / Brown)

Property	Requirements	Test Method
Physical		
Specific Gravity	1.19	ASTM D 1505/ ISO 1183
Tensile Strength	8 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	200% (min.)	ASTM D 412 / ISO 37
Water Absorption (25°C)	0.5% (max.)	ASTM D 570
Thermal Ageing		
Continuous Operating Temperature	-55° C to +130° C	IEC 216
Shrink Temperature	120° C (min.)	IEC 216
Heat Shock (30 min. 200°C)	No cracking / No flowing	
Heat Ageing (168 hrs. 120°C)		
Tensile Strength	7.0 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	100% (min.)	
Low Temperature Flexibility (-20°C)	No cracking	ASTM D 2671
Flammability	Self extinguishing	ASTM D 2671 - B
Electrical Properties		
Dielectric Strength	10 kV/mm (min.)	ASTM D 149 / IEC 243
Volume Resistivity	1 x 10 ¹² Ω cm (min.)	ASTM D 257 / IEC 93
Dielectric Constant	3 (min.) To 5 (max.)	ASTM D 150 / IEC 250
Tracking Erosion Resistance	No tracking or erosion up to 3.25 kV	ASTM D 2303

YAMUNA DENSONS Heat Shrinkable Medium Wall Tubing upto 66 kV

Features :

- Suitable for a variety of low voltage electrical and mechanical applications
- Suitable for underground buried conditions
- Continuous operation temperature: -40°C to 125°C
- Meets the requirements of ESI 09 13
- Shrink Temperature: 120°C
- Unlimited shelf life
- Adhesive lined also available

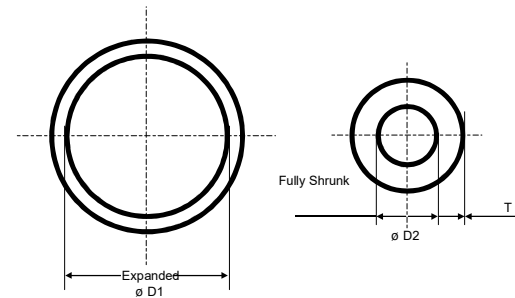


Cross linked Polyolefin Polymer suitable for low and medium voltage Indoor installation and shrouding on telephone lines, power lines and conditioning ducts etc.

Specifications:

Dimension Chart for Heat Shrink Medium Wall Tubing

Code	As Supplied ø D1 (max.)	After Recovered	
		ø D2 (max.)	T (min.)
DMSR - 15/6	15	6	2.2
DMSR - 25/8	25	8	2.5
DMSR - 36/12	36	12	2.5
DMSR - 50/16	50	16	2.5
DMSR - 63/19	63	19	2.5
DMSR - 75/22	75	22	2.5
DMSR - 95/25	95	25	3.0
DMSR - 115/34	115	34	3.0
DMSR - 140/42	140	42	3.0
DMSR - 160/50	160	50	3.0
DMSR - 180/60	180	60	3.5



Note: All dimensions are in mm

Technical Data for Heat Shrink Medium Wall Tubing

Property	Requirements	Test Method
Physical		
Specific Gravity	1.10	ASTM D 1505 / ISO 1183
Tensile Strength	10 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	200% (min.)	ASTM D 412 / ISO 37
Water Absorption (25°C)	0.5% (max.)	ASTM D 570
Thermal Ageing		
Continuous Operating Temperature	-55°C to +130°C	IEC 216
Shrink Temperature	120°C (min.)	IEC 216
Heat Shock (30 min. 200°C)	No cracking / No flowing	
Heat Ageing (168 hrs 120°C)		
Tensile Strength	7.0 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	100% (min.)	
Low Temperature Flexibility (-20°C)	No cracking	ASTM D 2671
Electrical		
Dielectric Strength	10 kV/mm (min.)	ASTM D 149 / IEC 243
Volume Resistivity	1 x 10 ¹² Ω cm (min.)	ASTM D 257 / IEC 93
Dielectric Constant	2 (min.) To 5 (max.)	ASTM D 150 / IEC 250

YAMUNA DENSONS Heat Shrinkable Dual Wall Tubing upto 66 kV

Features :

- Single Tube Solution
- Reduces time for installation
- Reduces skills
- Removes air entrapment caused by multi layer shrinking
- Ensures perfect bond between different layers
- Minimum shrink temperature: 110° C

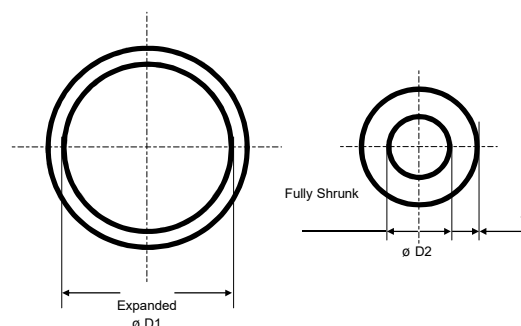


Specifications:

Dimension Chart for Heat Shrink Dual Wall Tubing

Code	As Supplied ø D1 (max.)	After Recovered ø D2 (max.)	T (min.)
DDWT - 35/12	35	12	6.0
DDWT - 45/15	45	15	6.0
DDWT - 55/18	55	18	6.0
DDWT - 65/25	65	25	6.5
DDWT - 85/30	85	30	6.5
DDWT - 100/38	100	38	6.5
DDWT - 120/45	120	45	7.0
DDWT - 140/50	140	50	7.0

Note: All dimensions are in mm



Technical Data for Heat Shrink Dual Wall Tubing (for Inner Layer):

Property	Requirements	Test Method
Tensile Strength	8 N/mm ² (min.)	ASTM D 2671
Elongation at Break	200% (min.)	ASTM D 2671
Water Absorption	0.5% (max.)	ISO 62
Volume Resistance	10 ¹² Ω cm (min.)	IEC 93
Dielectric Strength	10 kV/mm (min.)	IEC 243

Technical Data for Heat Shrink Dual Wall Tubing (for External Layer):

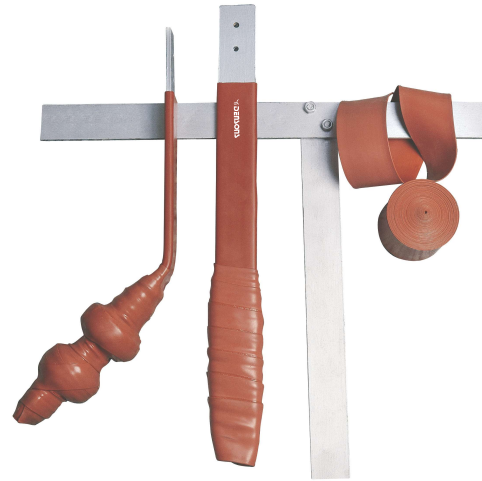
Property	Requirements	Test Method
Tensile Strength	8 N/mm ² (min.)	ASTM D 638
Elongation at Break	200% (min.)	ASTM D 638
Water Absorption	0.5% (max.)	ISO 62

YAMUNA DENSONS Heat Shrinkable Medium Voltage Insulation Tape upto 36 kV

Features :

- Reduces bus bar clearance requirements
- Protects against accidental flashover
- Continuous operation temperature: -40°C to 125°C
- Halogen free
- Shrink Temperature: 120°C
- Anti-track

Anti-Track adhesive coated Heat Shrink Tape specially designed for insulation & protecting medium voltage bus bar upto 36 kV.



Specifications:

Heat Shrink Medium Voltage Bus Bar Tape (for Service upto 36 kV over bolted Bus Bar)

Code	Roll Width (min.) mm	Backing Thickness Recovered (Nom) mm	Roll Length mtr.
DHSIT - 1	25.0	1.0	5
DHSIT - 2	50.0	1.0	5

Installation Instruction

A 2/3 overlap is recommended
One layer application required upto 17 kV
Two layer application required upto 25 kV
Three layer application required upto 36 kVa

Dimensions- Available in width of 25 mm & 50 mm

Clearance with Insulation

(for Service upto 36 kV over bolted Bus Bar)

System Voltage	Bill kV	P to P mm	P to G mm
15 kV	95	64	74
17 kV	110	86	106
25 kV	125	114	152
36 kV	175	200	285

P to P

Phase to Phase orientation
Spacing based on metal to metal

P to G

Phase to ground orientation
Dimensions prior to insulation

Space based on insulation wall thickness per application range of above tables.

Technical Data for Heat Shrink Medium Voltage Insulation Tape

Property	Requirements	Test Method
Physical		
Tensile Strength	8 N/mm ² (min.)	ASTM D 412, ISO 37
Ultimate Elongation	200% (min.)	ASTM D 412, ISO 37
Volume Resistivity	1 x 10 ¹² Ω cm. (min.)	ASTM D 257
Low Temperature Flexibility (4 hrs at -20° C)	No cracking	ASTM D 2671
Heat Ageing (7 days at 175° C)		
Tensile Strength	7 N/mm ² (min.)	ASTM D 2671
Elongation	100% (min.)	ASTM D 2671
Heat Shock	No cracking or flowing	ASTM D 2671
Electrical		
Dielectric Strength	10 kV/mm (min.)	ASTM D 149
Dielectric Constant	3-5	ASTM D 150
Tracking Resistance	Non-Tracking	ASTM D 2303
Corrosion	No corrosion	ASTM D 2671
Water Absorption	0.5% (max.)	ASTM D 570
Adhesive		
Adhesive Softening Point	100° C	ASTM D 28
Low Temperature Flexibility	-25 C	ESI 0913
Tracking Resistance	Non-Tracking	ASTM D 2303

YAMUNA DENSONS Heat Shrinkable Stress Control Tubing upto 36 kV

Features :

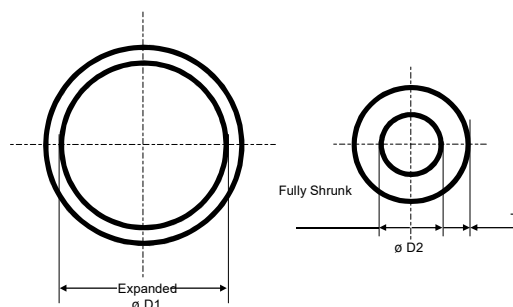
- Electrical Stress Control at the end of the cable shielding
- Suitable for underground buried Joint, Indoor & Outdoor termination
- Continuous operation temperature: -40°C to 125°C
- Meets the requirements of ENATS 09 13
- Shrink Temperature: 120°C
- Unlimited shelf life
- UV Resistant
- Shrink Ratio 3 : 1



Specifications:

Dimension Chart for Heat Shrink Stress Control Tubing

Code	As Supplied		After Recovered	
	ø D1 (max.)	ø D2 (max.)	T (min.)	
DSCT - 26/10	26	10	2.1	
DSCT - 30/12	30	12	2.2	
DSCT - 35/15	35	15	2.3	
DSCT - 40/16	40	16	2.4	
DSCT - 47/18	47	18	2.4	
DSCT - 55/21	55	21	2.4	
DSCT - 65/25	65	25	2.4	
DSCT - 75/30	75	30	2.4	



Note: All dimensions are in mm

Technical Data for Heat Shrink Stress Control Tubing

Property	Requirements	Test Method
Physical		
Tensile Strength	10 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	200% (min.)	ASTM D 412 / ISO 37
Water Absorption (25°C)	0.5% (max.)	ASTM D 570
Thermal Ageing		
Continuous Operating Temperature	-55°C to +130°C	IEC 216
Shrink Temperature	120°C (min.)	IEC 216
Heat Shock (30 min. 200°C)	No cracking / No flowing	
Heat Ageing (168 hrs 120°C)		
Tensile Strength	8.0 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	100% (min.)	
Low Temperature Flexibility (-20°C)	No cracking	ASTM D 2671
Electrical		
Volume Resistivity	1 x 10 ⁹ Ω cm (min.)	ASTM D 257 / IEC 93
Dielectric Constant	15 min.	ASTM D 150 / IEC 250

YAMUNA DENSONS Heat Shrinkable Cable Repair Sleeve upto 36 kV

Features :

- Designed for Medium Voltage Application upto 36 kV
- Supplied with Hot melt Coating
- Continuous operation temperature: -55°C to 120°C
- Corrosion resistant
- Unlimited Shelf Life
- Resistant to aggressive media

Superior Heat Shrinkable wraparound insulation product, Ideal for providing insulation and protection for cable jacket, Shut down of system not required for repair, High shrink ratio covers even irregular shapes



Specifications:

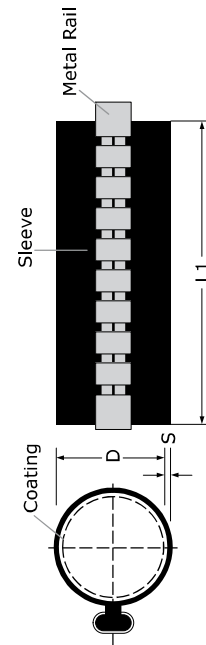
Dimension Chart for Heat Shrink Cable Repair Sleeve

Code	L1	D1 (min.)	D2 (max.)	S
DRS - 42/8	250 mm 500 mm 750 mm 1000 mm & 1500 mm	42	8	3.0
DRS - 62/22		62	22	3.0
DRS - 75/22		75	22	3.0
DRS - 92/30		92	30	3.0
DRS - 100/30		100	30	3.0
DRS - 122/38		122	38	3.0
DRS - 139/38		139	38	3.0
DRS - 160/55		160	55	3.0
DRS - 190/55		190	55	3.0
DRS - 210/55		210	55	3.0
DRS - 240/60		240	60	3.0

D1: Dimensions as supplied

D2: Dimensions after full shrinking

Note: Longer length available on request



Technical Data for Heat Shrink Cable Repair Sleeve

Property	Requirements	Test Method
Physical		
Tensile Strength	10 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	200% (min.)	ASTM D 412 / ISO 37
Continuous Operating Temperature	- 55°C to 120°C	IEC 216
Minimum Shrink Temperature	120°C	IEC 216
Specific Gravity	1.1 max.	ASTM D 1505 / ISO1183
Dielectric Strength	10kV/mm (min.)	ASTM D 149 / IEC 243
Volume Resistivity	10 ¹² Ω cm (min.)	ASTM D 257 / IEC 93
Low Temperature Flexibility	No cracking at - 20°C	ASTM D 2671
Heat Shock (4 hours at 225°C)	No cracking, dripping or flowing	
Water Absorption	0.2% max.	ASTM D 570
Resistance to Fungus	Does not support growth	ASTM G 21
Copper Corrosion	Non corrosive	

YAMUNA DENSONS Heat Shrinkable Bus-bar Insulation Tubing upto 66 kV

Features :

- Made from specially formulated radiation cross- linked compounds
- Carefully produced product can provide high resistance to tracking and arcing
- Used to enhance the insulation properties of bus-bar in switchgear and substation
- Shrink Temperature: 110° C



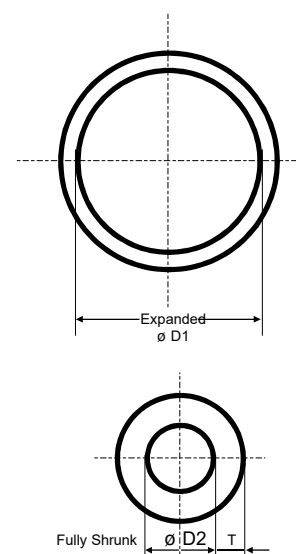
Specifications:

Dimension Chart for Heat Shrink DBM (Medium wall Bus-bar Tubing)

Code	As Supplied ø D1 (max.)	After Recovered ø D2 (max.)	T (min.)	App. bus-bar dim. (mm)	Standard length (m/spool)
DBM - 25/10	25	10	2.0	25*3	30
DBM - 30/12	30	12	2.0	35*4	30
DBM - 35/14	35	14	2.0	35*4	30
DBM - 40/16	40	16	2.0	40*5	30
DBM - 50/20	50	20	2.0	50*5	30
DBM - 65/25	65	25	2.0	65*8	30
DBM - 75/30	75	30	2.0	75*8	15
DBM - 100/40	100	40	2.0	100*10	15

Dimension Chart for Heat Shrink DBT (Thick wall Bus-bar Tubing)

Code	As Supplied ø D1 (max.)	After Recovered ø D2 (max.)	T (min.)	App. bus-bar dim. (mm)	Standard length (m/spool)
DBT - 15/6	15	6	3.0	15*3	15
DBT - 25/10	25	10	3.0	25*4	15
DBT - 30/12	30	12	3.0	35*4	15
DBT - 40/16	40	16	3.0	40*5	15
DBT - 50/20	50	20	3.0	50*5	15
DBT - 65/25	65	25	3.0	65*8	15
DBT - 75/30	75	30	3.0	75*8	15
DBT - 85/35	85	35	3.0	85*10	15
DBT - 100/40	100	40	3.0	100*10	15
DBT - 120/50	120	50	3.0	120*12	1000 mm
DBT - 150/60	150	60	3.0	150*15	1000 mm



Technical Data for Heat Shrink Bus-bar Insulation Tubing

Property	Requirements	Test Method
Tensile Strength	10 N/mm ²	ASTM D 2671
Longitudinal Shrinkage	0 to - 10%	ASTM D 2671
Elongation at Break	200%	ASTM D 2671
Elongation at Break after Ageing	≥ 100%	ASTM D 2671 / 120° C, 168 hrs.
Dielectric Strength	≥ 10 kV / mm	IEC 243 / ENATS 0913
Dielectric Constant	2 (min.) To 5 (max.)	IEC 250
Volume Resistance	10 ¹² Ω cm	IEC 93
Flammability (Oxygen index)	≥ 25	ASTM 4589
Copper Corrosion	120°C, 168 hrs., no corrosion	ASTM D 2671
Cold Bend	-40°C, 4 hrs., no cracking	ASTM D 2671
Water Absorption	≤ 0.5%	ISO 62 / 23° C, 14 days.

YAMUNA DENSONS Heat Shrinkable Heavy Wall Tubing upto 66 kV

Features :

- Halogen Free.
- Suitable for underground buried conditions
- Continuous operation temperature: -40°C to 125°C
- Meets the requirements of ESI 09 13
- Shrink Temperature: 120°C
- Unlimited shelf life and Flame retardant

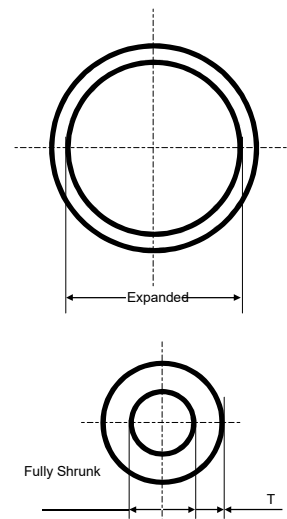


Specifications:

Dimension Chart for Heat Shrink Heavy Wall Tubing

Code	Diameter As Supplied (mm)	Diameter After Recovered (mm)	Recovered Wall Thickness (mm)
DTSR - ø9/3	9	3	1.8
DTSR - ø13/4	13	4	2.4
DTSR - ø22/6	22	6	2.7
DTSR - ø33/8	33	8	3.2
DTSR - ø40/12	40	12	4.1
DTSR - ø45/12	45	12	4.1
DTSR - ø55/16	55	16	4.1
DTSR - ø75/22	75	22	4.1
DTSR - ø85/25	85	25	4.1
DTSR - ø95/29	95	29	4.1
DTSR - ø115/34	115	34	4.3
DTSR - ø130/36	130	36	4.3
DTSR - ø160/50	160	50	4.3
DTSR - ø180/50	180	50	4.3
DTSR - ø200/60	200	60	4.3

Note: All dimensions are in mm



Technical Data for Heat Shrink Heavy Wall Tubing

Property	Requirements	Test Method
Physical		
Specific Gravity	1.10	ASTM D 1505 / ISO 1183
Tensile Strength	10 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	200% (min.)	ASTM D 412 / ISO 37
Water Absorption (25°C)	0.5% (max.)	ASTM D 570
Thermal Ageing		
Continuous Operating Temperature	-55°C to +130°C	IEC 216
Shrink Temperature	120°C (min.)	IEC 216
Heat Shock (30 min. 200°C)	No cracking / No flowing	
Heat Ageing (168 hrs 120°C)		
Tensile Strength	7.0 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	100% (min.)	
Low Temperature Flexibility (-20°C)	No cracking	ASTM D 2671
Electrical		
Dielectric Strength	10 kV/mm (min.)	ASTM D 149 / IEC 243
Volume Resistivity	1 x 10 ¹² Ω cm (min.)	ASTM D 257 / IEC 93
Dielectric Constant	2 (min.) To 5 (max.)	ASTM D 150 / IEC 250

YAMUNA DENSONS Heat Shrinkable Cable End Caps

Features :

- Good resistance against abrasion
- Unaffected by ultra violet light
- Unlimited shelf life
- Good chemical & solvent resistance

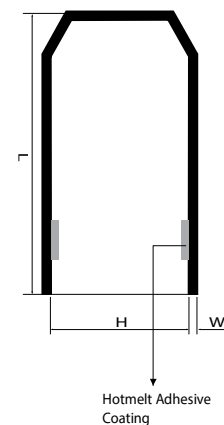
Heat Shrinkable End Caps Ideal for sealing cable ends, pipe, conduits etc. Superior resistance to weathering, moisture contamination and adverse environmental conditions.



Specifications:

Dimension Chart for Heat Shrink Cable End Caps

Code	H		L		W		Cable Diameter
	a (min)	b (min)	b ± 10%	b ± 10%			
DEC 001 S	6	2	25	2.0			2 - 4
DEC 001	12	4	40	2.3			4 - 8
DEC 001 L	12	4	58	2.3			4 - 8
DEC 001 A	14	4	38	2.3			4 - 11
DEC 001 AL	14	4	58	2.3			4 - 11
DEC 101	20	7.5	55	2.3			8 - 16
DEC 101 L	20	8	75	2.5			8 - 16
DEC 101 A	25	8	55	2.3			8 - 20
DEC 101 AL	25	8	75	2.5			8 - 20
DEC 102	30	11	75	2.5			12 - 36
DEC 102 A	35	11	75	2.5			12 - 30
DEC 201	40	15	90	3.3			16 - 35
DEC 201 L	40	15	120	3.3			16 - 35
DEC 201 A	45	15	90	3.3			16 - 40
DEC 201 AL	45	15	120	3.3			16 - 40
DEC 301	55	25	125	3.8			25 - 47
DEC 301 L	55	25	170	3.8			25 - 47
DEC 301 A	63	25	125	3.8			25 - 55
DEC 301 AL	63	25	170	3.8			25 - 55
DEC 401	75	35	140	4.0			35 - 68
DEC 401 L	75	35	180	4.0			35 - 68
DEC 401 A	85	36	140	4.0			36 - 78
DEC 401 AL	85	35	180	4.0			36 - 78
DEC 501	100	45	160	4.0			45 - 90
DEC 501 L	100	45	200	4.0			45 - 90
DEC 501 A	120	45	160	4.0			45 - 110
DEC 501 AL	120	45	200	4.0			45 - 110
DEC 601	130	60	155	4.6			64 - 120
DEC 601 L	130	65	300	4.6			67 - 120
DEC 701	154	60	165	4.6			70 - 145
DEC 701 L	160	65	300	4.5			70 - 145
DEC 801 S	190	125	220	4.0			140 - 165



a: as supplied

b: after fully recovered

End caps with value is available on request

Note: All Dimensions are in mm

Technical Data for Heat Shrink Cable End Caps

Property	Requirements	Test Method
Tensile Strength	8 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	200% (min.)	ASTM D 412 / ISO 37
Continuous Operating Temperature	-55°C to 120°C	IEC 216
Minimum Shrink Temperature	120°C	IEC 216
Specific Gravity	1.1 (max.)	ASTM D 1505 / ISO 1183
Dielectric Strength	10kV/mm min.	ASTM D 149 / IEC 243
Volume Resistivity	10 ¹² ohm cm. (min.)	ASTM D 257 / IEC 93
Low Temperature Flexibility	No cracking at -20°C	ASTM D 2671
Heat Shock (4 hours at 225°C)	No cracking, dripping or flowing	
Water Absorption	0.2% max.	ASTM D 570
Resistance to Fungus	Does not support growth	ASTM G 21
Copper Corrosion	Non corrosive	
Flammability	Self extinguishing	ASTM D 2671 B

YAMUNA DENSONS Heat Shrinkable Breakouts Boots/Shapes

Features :

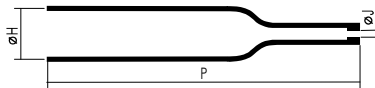
- Designed for Medium Voltage Application upto 36 kV
- Shaped components to meet a variety of configuration requirements
- Continuous operation temperature: -55° C to 120°C
- Shrink temperature: 120°C
- Flame retardant



Specifications:

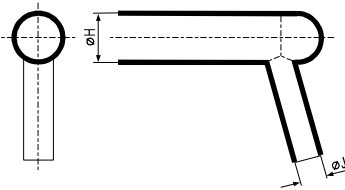
Dimension Chart for Straight Boot

Code	Expanded Min.		Recovered Max.		After Recovered P ± 10%
	ø H	ø J	ø H	ø J	
DSB - 1	80.0	34.0	32.0	19.0	225.0
DSB - 2	80.0	58.0	32.0	19.0	225.0



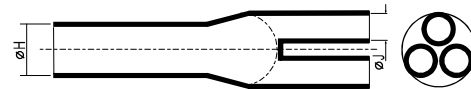
Dimension Chart for Right Angle Boot

Code	Expanded Min.		Recovered Max.	
	ø H	ø J	ø H	ø J
DRAB - 1	75	36	35	18
DRAB - 2	75	50	35	26
DRAB - 3	95	67	35	26



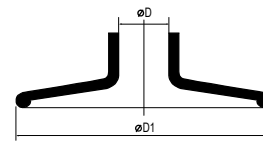
Dimension Chart for 3 Way Breakout (Red)

Code	Expanded Min.		Recovered Max.	
	ø H	ø J	ø H	ø J
DIB - 0820	60	27	20	8
DIB - 1330	75	32	30	13
DIB - 2145	110	55	45	21
DIB - 2755	135	64	55	27



Dimension Chart for Rain Shed

Code	Expanded Min.		Recovered Max.	
	ø D	ø D	ø D	ø D1 ± 10%
DCE - 0	32	10	65	
DCE - 1	35	15	89	
DCE - 2	52	21	122	
DCE - 3	65	28	136	
DCE - 4	75	28	136	



Technical Data for Heat Shrink Breakouts Boots/Shapes

Property	Requirements	Test Method
Physical		
Tensile strength	8 N/mm ² (min.)	ASTM D 412, ESI 09-13
Elongation at break	200% (min.)	ASTM D 412, ESI 09-13
Heat Ageing (500 hrs. at 120°C)		
Tensile Strength	7 N/mm ² (min.)	ASTM D 412
Elongation	100% (min.)	ASTM D 412
Cold Temperature Flex (-40°C)	No Cracking	ASTM D 2671
Electrical		
Dielectric Strength	10 kV/mm (min.)	ASTM D 149, IEC 243
Volume Resistivity	1x10 ¹² Ω cm	ASTM D 257
Track Resistance	Non-Tracking	ASTM D 2303
Corrosion Resistance		
Tensile Strength	7 N/mm ² (min.)	ASTM D 412
Elongation	100% (min.)	ASTM D 412

YAMUNA DENSONS Heat Shrinkable Semi Conductive Breakout

Features :

- Breakout can be used for cable terminations up to 36 KV
- The electrically semi-conductive breakout provides effective conductive screen and sealing protection to the cable termination
- Minimum fully recovered temperature: 130°C
- Flame retardant

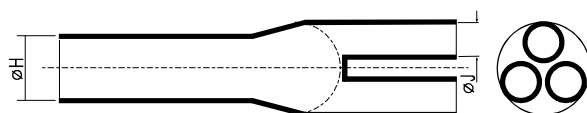


Specifications:

Dimension Chart for 3 Semi Conductive Breakout (Black)

Code	Expanded		Recovered	
	ø H (min.)	ø J (min.)	ø H (max.)	ø J (max.)
DSCB - 0820	60	27	20	8
DSCB - 1330	75	32	30	13
DSCB - 2145	110	55	45	21
DSCB - 2755	135	64	55	27

Note: All Dimensions are in mm



Technical Data for Heat Shrinkable Semi Conductive Breakout

Property	Requirements	Test Method
Tensile Strength	8 N/mm ² (min.)	ASTM D 638
Elongation at Break	200% (min.)	ASTM D 638
Water Absorption	0.5% (max.)	ISO 62
Volume Resistivity	$1 \times 10^4 \Omega \text{ cm}$ (min.)	IEC 93
Longitudinal Change	± 25 %	ENAT S 0913

YAMUNA DENSONS Heat Shrinkable Cable Breakout Boots (Black)

Features :

- Thermoplastic Adhesive Liner provides complete environmental protection and insulation
- Heat Shrinkable Boots for 2, 3 and 4 way cable breakouts
- Continuous operation temperatures : 135° C
- Provides strain relief & Mechanical protection
- Seals and protects multi-conductor cable and conduit breakouts
- Flame retardant



Heat Shrinkable Boots seal and protect multi-conductor cable and conduit breakouts.

Specifications:

Dimension Chart for Heat Shrink Breakout Boots (Black)

Code	Breakout Main Diameter		Finger Diameter		Full Length ± 10% (mm)	Finger Length ± 10% (mm)
	Expanded (mm)	Recovered (mm)	Expanded (mm)	Recovered (mm)		
2 Cores Breakouts						
DIBB - 2 33/12	33	12	14	4.5	90	20
DIBB - 2 60/23	60	23	25	7	120	30
3 Cores Breakouts						
DIBB - 3 38/16	38	16	14	4	100	25
DIBB - 3 60/24	60	24	25	8	185	45
DIBB - 3 80/36	80	36	36	12	210	55
DIBB - 3 110/48	110	48	46	16	250	65
DIBB - 3 125/55	125	55	52	20	260	80
DIBB - 3 140/68	140	68	62	25	280	80
4 Cores Breakouts						
DIBB - 4 35/12	35	12	16	4	100	25
DIBB - 4 55/25	55	25	25	9.4	235	45
DIBB - 4 68/25	68	25	34	9.4	235	45
DIBB - 4 78/30	78	30	38	12	235	45
DIBB - 4 90/30	90	30	38	12	235	45

Note: All Dimensions are in mm

Technical Data for Heat Shrink Breakout Boots (Black)

Property	Requirements	Test Method
Physical		
Tensile Strength	8 N/mm ² (min.)	ASTM D 412
Ultimate Elongation	200% (min.)	ASTM D 412
Thermal Ageing (168 hrs at 175° C) Ultimate Elongation	100% (min.)	ASTM D 412
Low Temperature Flexibility (-20°C)	No cracking	ASTM D 2671
Heat Shock (4 hrs at 225°C)	No dripping, flowing or cracking	ASTM D 2671
Flammability	Self ext. within 60 second	ASTM D 2671
Electrical		
	10 kV/mm (min.)	
Dielectric Strength		ASTM D 149
Chemical		
	0.5 (max.)	
Water Absorption		ASTM D 570

YAMUNA DENSONS Heat Shrinkable Triple Layer Tubing

Features :

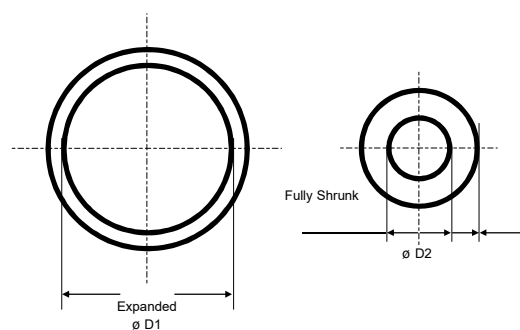
- Cross-linked heavy wall tubing
- Tri-layer design with high recovery forces
- Co-Extrusion technology
- Removes air entrapment caused by multi layer shrinking
- Eliminates partial discharge
- Helogen free
- Minimum shrink temperature: 135 - 150° C
- Voltage class: 10 to 35 kV



Specifications:

Dimension Chart for Heat Shrink Triple layer tubing

Code	As Supplied	After Recovered	
	ø D1 (max.)	ø D2 (max.)	T (±10%)
DTWT - 35/13	35	13	11.0
DTWT - 48/17	48	17	12.0
DTWT - 50/21	50	21	12.7
DTWT - 63/26	63	26	13.5
DTWT - 75/34	75	34	13.5
DTWT - 85/34	85	34	13.5
DTWT - 95/42	95	42	14.2
DTWT - 110/52	110	52	14.2
DTWT - 125/62	125	62	15.0



Note: All dimensions are in mm

Technical Data for Heat Shrink Triple Layer Tubing (for Inner Layer):

Property	Requirements	Test Method
Tensile strength	6 N/mm ² (min.)	ASTM D 2671
Elongation at break	200% (min.)	ASTM D 2671
Water absorption	0.5% (max.)	ISO 62
Volume resistance (Insulating layer)	10 ¹² Ω cm (min.)	ASTM D 257
Dielectric strength (Insulating layer)	10 kV/mm (min.)	IEC 243

Technical Data for Heat Shrink Triple Layer Tubing (for External Layer):

Property	Requirements	Test Method
Tensile Strength	6 N/mm ² (min.)	ASTM D 2671
Elongation at Break	200% (min.)	ASTM D 2671
Water Absorption	0.5% (max.)	ISO 62
Volume Resistance	10 ⁴ Ω cm (min.)	ASTM D 257

YAMUNA DENSONS Heat Shrinkable Cable Repair Sleeve (Fibers integrated)

Features :

- Designed for application upto 66 kV
- Supplied with heat sensitive paint and adhesive flow
- Continuous operation temperature: -20°C to 150°C
- Suitable for repair of all types of non-pressurized cable



Heat Shrinkable wraparound sleeve is made from superior composite material. It is made of polyethylene with integrated fibers and has an inner laminated aluminum layer. Furthermore, it is ideal for providing insulation and protection for the cable outer layer. down of system not required for repair, High shrink ratio covers even irregular shapes

Specifications:

Dimension Chart for Heat Shrink Cable Repair Sleeve

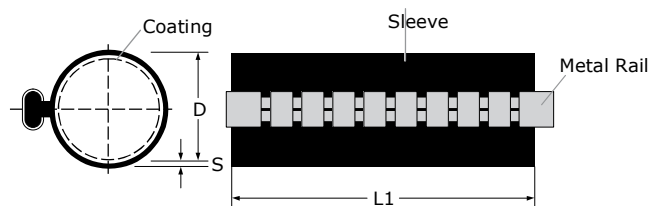
Code	L1	D1 (min.)	D2 (max.)	S
DRSF - 43/8	500 mm 1000 mm 1500 mm & 2000 mm	43	8	4.5
DRSF - 55/12		55	12	4.5
DRSF - 75/15		75	15	4.5
DRSF - 100/25		100	25	4.5
DRSF - 125/30		125	30	4.5
DRSF - 164/42		164	42	4.5
DRSF - 205/55		205	55	4.5

D1: Dimensions as supplied

D2: Dimensions after full shrinking

S: Sleeve thickness after shrinking

Note: Longer length available on request



Technical Data for Heat Shrink Cable Repair Sleeve

Property	Requirements	Test Method
Physical		
Tensile Strength	6 N/mm ² (min.)	ASTM D 412 / ISO 37
Ultimate Elongation	100% (min.)	ASTM D 412 / ISO 37
Continuous Operating Temperature	- 20°C to 150°C	IEC 216
Specific Gravity	1.1 max.	ASTM D 1505 / ISO1183
Dielectric Strength	10kV/mm (min.)	ASTM D 149 / IEC 243
Volume Resistivity	10 ¹² Ω cm (min.)	ASTM D 257 / IEC 93
Low Temperature Flexibility	No cracking at - 20°C	ASTM D 2671
Temperature Indicating (Paint Conversion)	230-250°C	Scraped off paint from sleeve

YAMUNA DENSONS Heat Shrinkable Flame retardant polyolefin colour thin wall tubing

Features :

- Clear version offers exceptional clarity.
- Minimum shrink temperature: 800C
- Full recovery temperature: 1250C
- Flexible
- Halogen free
- Standard colour: Black, Transparent, Yellow, Red, Blue
Other colours available on request



Specifications:

Dimension Chart for Heat Shrink Thin Wall Tube

Normal Size (mm)	As Supplied (mm)		After recovered (mm)		Cable Diameter
	Inside diameter (Approx.)	Inside diameter (Max.)	Inside diameter (Max.)	Wall thickness (Min.)	
DTWT 1.1/0.50	1.1	0.50	0.22	400	
DTWT 1.5/0.65	1.5	0.65	0.28	400	
DTWT 2.0/0.85	2.0	0.85	0.32	400	
DTWT 2.5/1.00	2.5	1.00	0.35	400	
DTWT 3.0/1.30	3.0	1.30	0.38	400	
DTWT 3.5/1.50	3.5	1.50	0.40	400	
DTWT 4.0/1.80	4.0	1.80	0.42	400	
DTWT 4.5/2.00	4.5	2.00	0.45	400	
DTWT 5.0/2.30	5.0	2.30	0.50	200	
DTWT 5.5/2.5	5.5	2.5	0.55	200	
DTWT 6.5/3.0	6.5	3.0	0.55	200	
DTWT 7.5/3.5	7.5	3.5	0.55	100	
DTWT 8.5/4.0	8.5	4.0	0.60	100	
DTWT 9.5/4.5	9.5	4.5	0.60	100	
DTWT 10.5/5.0	10.5	5.0	0.60	100	
DTWT 11.5/5.5	11.5	5.5	0.60	100	
DTWT 12.5/6.0	12.5	6.0	0.60	100	
DTWT 13.5/6.5	13.5	6.5	0.65	100	
DTWT 14.5/7.0	14.5	7.0	0.65	100	
DTWT 15.5/7.5	15.5	7.5	0.70	100	
DTWT 16.5/8.0	16.5	8.0	0.70	100	
DTWT 17.5/8.5	17.5	8.5	0.70	100	
DTWT 19.0/9.0	19.0	9.0	0.80	100	
DTWT 21.0/10.0	21.0	10.0	0.80	100	
DTWT 23.0/11.0	23.0	11.0	0.80	100	
DTWT 26.0/12.5	26.0	12.5	0.90	50	
DTWT 29.0/14.0	29.0	14.0	0.90	50	
DTWT 31.5/15.0	31.5	15.0	0.95	50	
DTWT 36.5/17.5	36.5	17.5	1.00	50	
DTWT 41.5/20.0	41.5	20.0	1.00	50	
DTWT 46.5/22.5	46.5	22.5	1.00	25	
DTWT 50.0/25.0	50.0	25.0	1.00	25	
DTWT 60.0/31.0	60.0	31.0	1.30	25	
DTWT 70.0/36.0	70.0	36.0	1.30	25	
DTWT 80.0/41.0	80.0	41.0	1.46	25	
DTWT 90.0/46.0	90.0	46.0	1.46	25	
DTWT 100.0/51.0	100.0	51.0	1.46	25	
DTWT 120.0/61.0	120.0	61.0	1.56	25	
DTWT 150.0/76.0	150.0	76.0	1.56	25	
DTWT 180.0/91.0	180.0	91.0	1.56	25	

Note: All Dimensions are in mm

Heat shrink tubing for general applications where flame-retardant properties are required and electrical insulation and mechanical performance is important

Technical Data

Property	Requirements	Test Method
Operating Temperature	-55 TO +105°C	UL 224
Tensile Strength	>8 mPA	ASTM D 2671
Elongation at Break	>200%	ASTM D 2671
Longitudinal Shrinkage	± 5%	UL 224
Eccentricity	<30%	ASTM D 2671
Flammability	Pass	VW - 1
Dielectric Strength	>10 kV/mm	IEC 243
Volume Resistance	>10 ¹² ohm cm	IEC 93

YAMUNA DENSONS Silicone Cold Shrink Tube with Mastic



Features :

- Open ended with water proofing mastic
- Excellent tight seal to prevent from moisture in joints and terminations
- Easy installation

Technical Data for Silicone Cold Shrink Tube with Mastic

Property	Requirements	Test Method
Physical		
Tensile Strength	8 MPa	ASTM D 412
Elongation at Break	600%	ASTM D 412
Thermal Ageing	Pass	ASTM D 412
Ozone Ageing	Pass	ASTM D 1149
UV Ageing	Pass	ASTM G 154
Electric Strength	10 kV/mm	ASTM D 4325

Packing

Item Code	Dimension	Colour
DC-97	Φ 25*120MM	Grey
DC-97	Φ 28*110MM	Grey
DC-97	Φ 28*200MM	Grey
DC-97	Φ 40*140MM	Grey
DC-97	Φ 40*240MM	Grey

YAMUNA DENSONS EPDM Cold Shrink Tube



Features :

- Open ended Cold Shrink EPDM Material
- Excellent moisture tight seals for termination & joints
- Easy installation
- Factory pre-expanded & assembled on removable core

Technical Data for EPDM Cold Shrink Tube

Property	Requirements	Test Method
Physical		
Tensile Strength	8 MPa	ASTM D 412
Elongation at Break	600%	ASTM D 412
Thermal Ageing	Pass	ASTM D 412
Ozone Ageing	Pass	ASTM D 1149
UV Ageing	Pass	ASTM G 154
Electric Strength	10 kV/mm	ASTM D 4325

Dimension

Item Code	Diameter (mm)	Cable Size (mm)		Length (mm)
		Min	Max	
DC-96	20	8	15	90-500
DC-96	25	10	20	90-500
DC-96	35	13	30	90-500
DC-96	40	17.5	33	90-500
DC-96	53	25	46	90-500
DC-96	70	32	63	90-500
DC-96	104	43	94	90-500
DC-96	125	46	114	90-500
DC-96	150	55	135	90-500

Note : Other size is available on request

YAMUNA DENSON'S Medium Voltage Cold Applied Bushing Protection Boots DCSB-DCRAB



DCSB/Straight Boot



DCRAB/Right Angle Boot

Application :

- Configuration 35-400mm² at 7.2/17.5 for straight boots and 46-70mm² up to 15kV right angle boots
- Mainly applied for RMU and cable branch system
- In compliance with IEC-60502-4

Features :

- Simple and easy installation
- Longer shelf life
- Unique bushing adaptor provides superior moisture ingress protection

Technical Data for Medium Voltage Cold Applied Bushing Protection Boots

Performance	DCSB	DCRAB
Max. System Voltage	17.5kV	15kV
Continuous Current	250A/630A	630A
Impulse Withstand	95kV	95kV
Adaptor	No/Yes	-----
Bushing Diameter	31-45mm	46-70mm
Bushing Type	250A	400A/630A
Cable Cross Section	35-400mm ²	35-400mm ²

YAMUNA DENSON'S Silicone Conductor Cover upto 220kV

Features :

- Anti-tracking
- Light Weight
- Superior UV and Abrasion Resistance
- Weather Resistance
- Range Taking
- Quick Installation
- Localized Installation



Specifications:

Dimension Chart for Silicone Conductor Cover for 11 kV

Suitable Conductor Selection mm ²	Size - ϕ D mm	Thickness - A mm
25-50	ϕ 12	2
70-95	ϕ 15	2
120-150	ϕ 20	2
185-240	ϕ 24	2
300-400	ϕ 30	2
500	ϕ 35	2

Dimension Chart for Silicone Conductor Cover for 35 kV

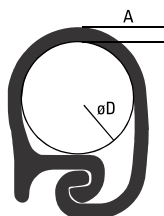
Suitable Conductor Selection mm ²	Size - ϕ D mm	Thickness - A mm
25-50	ϕ 12	3
70-95	ϕ 15	3
120-150	ϕ 20	3
185-240	ϕ 24	3
300-400	ϕ 30	3
500	ϕ 35	3

Dimension Chart for Silicone Conductor Cover for 110 kV

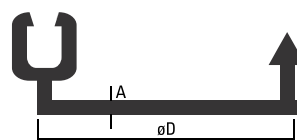
Suitable Conductor Selection mm ²	Size - ϕ D mm	Thickness - A mm
25-50	ϕ 12	4
70-95	ϕ 15	4
120-150	ϕ 20	4
185-240	ϕ 24	4
300-400	ϕ 30	4
500	ϕ 35	4

Dimension Chart for Silicone Conductor Cover for 220 kV

Suitable Conductor Selection mm ²	Size - ϕ D mm	Thickness - A mm
25-50	ϕ 12	6
70-95	ϕ 15	6
120-150	ϕ 20	6
185-240	ϕ 24	6
300-400	ϕ 30	6
500	ϕ 35	6



(Type A)



(Type B)

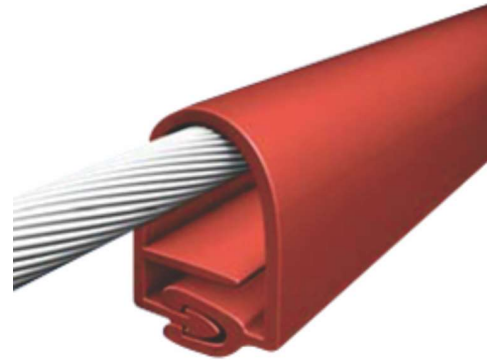
Technical Data for Silicon Conductor Cover

Property	Requirements	Test Method
Hardness Shore A	65	ISO 868
Elongation	200 % (min.)	ASTM D 638
Tensile Strength	4 N/mm ² (min.)	ASTM D 638
Tear Strength	10 N/mm ² (min.)	ASTM D 638
Dielectric Strength	10 kV/mm (min.)	ASTM D 2671
Volume Resistivity	10 ¹² ohm cm (min.)	ASTM D 2671

YAMUNA DENSONS Medium Voltage Conductor Cover

Features :

- Anti-tracking
- Light Weight
- Superior UV and Abrasion Resistance
- Weather Resistance
- Range Taking
- Quick Installation
- Localized Installation
- Enhance Insulation



Specifications:

Dimension Chart for Medium Voltage Conductor Cover

Size	Suitable Voltage	Suitable Conductor Section	Max. Conductor Diameter
ø14	1-35 kV	≤ 70 mm ²	14 mm
ø18	1-35 kV	95 mm ²	18 mm
ø20	1-35 kV	120-150 mm ²	20 mm
ø28	1-35 kV	185-240 mm ²	28 mm
ø31	1-35 kV	≤ 400 mm ²	31 mm
ø38	1-35 kV	≤ 800 mm ²	38 mm

Technical Data for Medium Voltage Conductor Cover

Property	Requirements	Test Method
Dielectric Strength	10 kV/mm	IEC 243
Tensile Strength	≥ 8 N/mm ²	ASTM D 2671
Elongation	≥ 200%	ASTM D 2671
Volume Resistivity	≥ 1x10 ¹² Ω cm	IEC 93

YAMUNA DENSONS EPR Insulating Tape



Features :

- Good Physical & Electrical Properties
- Self Amalgamating
- Reduces bus bar clearance requirements
- Protection against accidental flashover
- Continuous operation temperature: -40°C to 130°C

Technical Data for EPR Insulating Tape

Property	Requirements	Test Method
Physical		
Electrical Strength	35 kV/mm (Min.)	ASTMD 149:64
Water Absorption	0.5% (Max.)	ASTMD 570:63
Ultimate Elongation	800%	ASTMD 412:75
Volume Resistivity (20°C)	10 ¹³ ohm cm (Min.)	ASTMD 257:75
Low Temperature Flexibility	No cracking after 4 hours at -20°C (Max.)	
Temperature Range	-40°C to 100°C continuous upto 130°C for limited period during overload conditions	
Thickness	0.75 ± 0.05 mm	
Length	10.0 Mtr.	
Width	19, 25 & 38 ± 1 mm	
Colour	Black	

YAMUNA DENSONS EPR Semi Conducting Tape



Features :

- Semi-conducting
- Self fusing
- Resistance to ozone & UV
- Retain its conductivity when stretched

Technical Data for EPR Semi-conducting Tape

Property	Requirements	Test Method
Physical		
Tensile Strength	1.3 MPa	ASTM D 4325
Elongation at Break	800%	ASTM D 4325
Volume Resistivity	$<7 \times 10^8$ ohm cm	ASTM D 4325
Heat Ageing (130°C) 168 hrs.	Pass	ASTM D 4325
Self Fusing	Pass	ASTM D 4325

Packing

Item Code	Diameter (mm)	Colour
DC-72	19mm x 0.75mm x 4.5m	Black

Note : Other size is available on request

YAMUNA DENSONS Black Mastic Tape



Features :

- Void Filling
- Water Proof
- Self Amalgamating
- Oil Resistance
- Butyl Rubber Sealant Tape

Specifications:

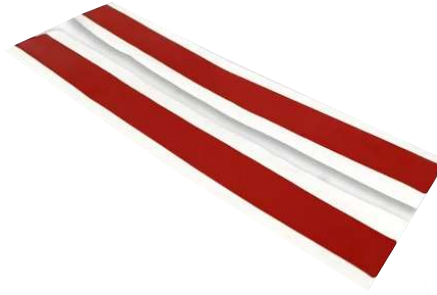
Black Mastic Tape

Code	Width	Thickness	Length
DMST400	35 ± 2 mm	3 ± 0.3 mm	400 ± 5 mm

Technical Data for Black Mastic Tape

Property	Requirements	Test Method
Low Temperature Flexibility (4 hrs at -20 C)	No Cracking	ENATS 09 13
Continuous Operating Temperature	No Splitting, Cracking, Dripping or Following at 100 C.	ENATS 09 13
Ultimate Elongation	100% (min.)	ASTM D 412
Visual Examination	Free From Pin Holes, Cracks, Inclusions & Other Visible Defects	
Volume Resistivity	1 x 10 ¹² ohm cm. (min.)	ASTM D 257
Colour	Black	
Water Absorption	0.5% (max)	ENATS 09 13
Amalgamation	The tape becomes one mass after application. This can be tested on any size of metal mandrel. The mass (tape) after application can be easily cut longitudinally with a knife and will then be checked for its amalgamation. It is observed that the tape does not crack after application, thus passing the amalgamation test.	

YAMUNA DENSONS Red Mastic Tape



Features :

- Void Filling
- Water Proof
- Self Amalgamating
- Oil Resistance
- Anti Track

Specifications:

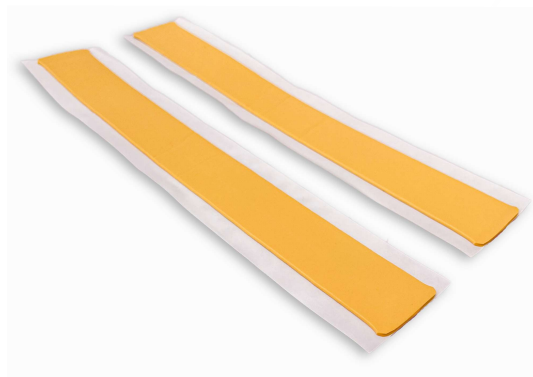
Red Mastic Tape

Code	Width	Thickness	Length
DRMT400	25 ± 2 mm	1.5 ± 0.3 mm	300 ± 5 mm

Technical Data for Black Mastic Tape

Property	Requirements	Test Method
Low Temperature Flexibility (4 hrs at -20 C)	No Cracking	ENATS 09 13
Continuous Operating Temperature	No Splitting, Cracking, Dripping or Following at 100 C.	ENATS 09 13
Ultimate Elongation	100% (min.)	ASTM D 412
Visual Examination	Free From Pin Holes, Cracks, Inclusions & Other Visible Defects	
Volume Resistivity	1 x 10 ¹² ohm cm. (min.)	ASTM D 257
Colour	Red	
Water Absorption	0.5% (max)	ENATS 09 13
Amalgamation	The tape becomes one mass after application. This can be tested on any size of metal mandrel. The mass (tape) after application can be easily cut longitudinally with a knife and will then be checked for its amalgamation. It is observed that the tape does not crack after application, thus passing the amalgamation test.	

YAMUNA DENSONS Stress Control Mastic Tape (Yellow)



Features :

- Void Filling
- Stress Relief
- Self Fusing
- Water Proof
- Self Amalgamating

Specifications:

Stress Control Mastic Tape (Yellow)

Code	Width (mm)	Thickness (mm)	Length (mm)
DSCM120	20 ± 1	2 ± 0.2	120 ± 5
DSCM150	20 ± 1	2 ± 0.2	150 ± 5
DSCM180	20 ± 1	2 ± 0.2	180 ± 5
DSCM500	30 ± 1	2 ± 0.2	200 ± 5

Technical Data for Black Mastic Tape

Property	Requirements	Test Method
Low Temperature Flexibility (4 hrs at -20 C)	No Cracking	ENATS 09 13
Continuous Operating Temperature	No Splitting, Cracking, Dripping or Following at 100 C.	ENATS 09 13
Ultimate Elongation	300% (min.)	ASTM D 412
Visual Examination	Free From Pin Holes, Cracks, Inclusions & Other Visible Defects	
Volume Resistivity	1 x 10 ⁹ ohm cm. (min.)	ASTM D 257
Colour	Yellow	
Water Absorption	0.5% (max)	ENATS 09 13

YAMUNA DENSON'S Silicone Rubber Electrical Tape



Features :

- High tracking resistance
- Resistance to solvents
- Resistance to Ozone, UV
- Withstand high / low temperature
- Self fusing rubber (-50°C to 250°C)

Technical Data for Silicone Rubber Electrical Tape

Property	Requirements	Test Method
Physical		
Tensile Strength	6 MPa	ASTM D 4325
Elongation at Break	400%	ASTM D 4325
Heat Ageing	Pass	ASTM D 4325
Ozone Ageing	Pass	ASTM D 4325
UV Ageing	Pass	ASTM D 4325

Packing

Item Code	Dimension	Colour
DC-73	19mm x 0.3mm x 15m	Grey
DC-73	19mm x 0.5mm x 15m	Grey
DC-73	25mm x 0.3mm x 15m	Grey
DC-73	25mm x 0.5mm x 15m	Grey
DC-73	25mm x 0.5mm x 11m	Grey

YAMUNA DENSONS Colour Coding Electrical PVC Tape



Features :

- High elongation at break
- Resistance to chemical corrosion
- Phase identification / colour coding
- Pressure sensitive electrical tape
- Upto 600 Volts

Technical Data for Colour Coding Electrical PVC Tape

Property	Requirements	Test Method
Physical		
Tensile Strength	30N/18mm	ASTM D 1000
Elongation at Break	100%	ASTM D 1000
Adhesion (Steel Plate)	3N/18mm	ASTM D 1000
Dielectric Constant	3	ASTM D 4325
Dielectric Strength	50kV/mm	ASTM D 4325

Packing

Item Code	Dimension	Colour
DC-60	18mm x 0.10mm x 7m	Red
DC-60	18mm x 0.10mm x 7m	Yellow
DC-60	18mm x 0.10mm x 7m	Blue
DC-60	18mm x 0.10mm x 7m	Black
DC-60	18mm x 0.10mm x 7m	White

Note : Other size is available on request

YAMUNA DENSONS Fire Proofing Tape



Features :

- Self fusing
- Fire retardant
- Easy installation
- Heat resistance

Technical Data for Fire Proofing Tape

Property	Requirements	Test Method
Physical		
Tensile Strength	6 MPa	GB/T2951.11
Elongation at Break	400%	GB/T2951.11
Flame Retardant	0.93	GA478-2004
Water Resistance	Pass	GA478-2004
Self Fusing	Pass	GA478-2004

Packing

Item Code	Diameter (mm)	Colour
DC-70	50mm x 0.75mm x 6m	Black

Note : Other size is available on request

YAMUNA DENSONS Armour Cast Tape



Features :

- Fast hardening
- Simple and Fast Installation
- High Tensile strength
- Resistance to water and corrosion

Technical Data for Armour Cast Tape

Property	Requirements	Test Method
Physical		
Tensile Strength	>400N	ASTM D 1000
Time of Hardening	5-12 minutes	-
Corrosion Resistance	Pass	ASTM D 1373
Heat Ageing	Pass	ASTM D 1373

Packing

Item Code	Diameter	Colour
DC-88	4 Inch(10.2cm) x 15 Ft(4.6m)	Black
DC-88	100mm x 3m	Black

Note : Other size is available on request

YAMUNA DENSONS Insulation End Caps upto 36 kV



The insulation end caps are used to seal the reserved bushings and bushings from which the separable Tee connectors have been removed at maintenance. To insulate and seal the live reserved bushings, to provide dust-proof, moisture-proof and sealing protection for the uncharged bushings.

Features :

- Suitable for Type C or Type E bushing
- Made of High Quality Silicone Rubber
- Excellent Electrical Properties
- Provide Full Screening, Insulation
- Provide Sealing Protection
- Easy Installation and Uninstallation

Electrical Performance

Rated Voltage	15 kV	24 kV	35 kV
Rated Current	630A	630A	630A
AC Withstand Voltage	42 kV/5min	54 kV/5min	117 kV/5min
Partial Discharge	15kV<10pc	20kV<10pc	45kV<10pc
Lighting Impact Voltage	95kV (±times)	125kV (±times)	200kV (±times)
Shield Resistance	<5000 Ω	<5000 Ω	<5000 Ω

Note : The product meet IEC 60502.

Main Accessories :

1. Insulation end cap
2. Silicone grease
3. Cleaning paper

YAMUNA DENSONS Tinned Copper Braid



Material Properties :

Code	No. of Bundles	No. of Wires ± 1	Width (± 2 mm)	Wire Dia (mm) (+0.009mm / -0.003mm)	Normal Cross Section Area of Copper Braid (± 2 mm ²)
DTCB - 24 x 4	24	4	10	0.3	7
DTCB - 24 x 7	24	7	16	0.3	11
DTCB - 24 x 7	24	7	25	0.3	11
DTCB - 48 x 6	48	6	25	0.3	21
DTCB - 48 x 8	48	8	25	0.3	28
DTCB - 48 x 10	48	10	30	0.3	33
DTCB - 48 x 12	48	12	35	0.3	42
DTCB - 48 x 15	48	15	40	0.3	50
DTCB - 48 x 22	48	22	40	0.3	73

YAMUNA DENSONS Tinned Copper Mesh Tape



Material Properties :

Code	Parameters	Required Value
DCMT - 50	Dimensions	50 ± 5 mm or customize
	Physical Status/ Visual Verification	Free From Any Damage Proper Knitting No Loose Burs Free From Rust/Corrosion
	SWG of Cu. Wire	0.12 mm (+0.01)
	No of Cu. Wire	One

YAMUNA DENSONS Heavy Duty Tinned Copper Lugs (Crimping type)



Dimensions of Heavy Duty Tinned Copper Lugs

Size mm ²	(Ø)A ±0.3	(Ø)C ±0.3	J ±3	D ±1	E ±0.2	K ±1	H ±1	G ±1
2.5	2.4	4.0	18	10	4.2	2	6	5
4	3.1	4.8	20	10	4.2	2	6	5
6	3.8	5.5	23	10	4.2	3	9	6
10	4.5	6.2	25	12	6.4	3	9	6
16	5.4	7.1	36	12	6.4	4	9	7
25	6.8	8.8	40	13	6.4	4	11	10
35	8.2	10.6	48	15	6.4	5	11	10
50	9.5	12.4	59	18	6.4	6	13	11
70	11.2	14.7	61	21	12.8	7	13	12
95	13.5	17.4	68	25	12.8	9	13	13
120	15.0	19.4	73	28	12.8	10	14	14
150	16.5	21.2	86	30	13.0	11	17	17
185	18.5	23.5	89	34	16.2	12	17	17
240	21.0	26.5	104	38	16.2	14	21	21
300	23.5	30.0	115	43	16.2	15	23	23
400	26.8	34.8	136	50	17.0	18	26	26
500	30.0	39.0	148	56	21.0	20	28	28
630	35.0	45.0	172	65	21.0	22	33	33
800	39.0	50.6	209	73	-	17	40	35
1000	43.0	56.2	245	81	-	20	45	45

(all dimensions are in mm)

Features :

- Conductivity 99.9% (IACS)
- Long barrel

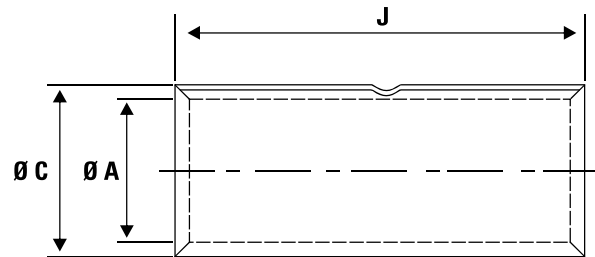
YAMUNA DENSONS Heavy Duty Tinned Copper Ferrules (Crimping type)



Dimensions of Heavy Duty Tinned Copper Ferrules

Size mm ²	(Ø)A ±0.3	(Ø)C ±0.3	J ±3
2.5	2.4	4.0	18
4	3.1	4.8	20
6	3.8	5.5	20
10	4.5	6.2	30
16	5.4	7.1	40
25	6.8	8.8	48
35	8.2	10.6	54
50	9.5	12.4	60
70	11.2	14.7	60
95	13.5	17.4	68
120	15.0	19.4	70
150	16.5	21.2	76
185	18.5	23.5	85
240	21.0	26.5	100
300	23.5	30.0	118
400	26.8	34.8	120
500	30.0	39.0	125
630	35.0	45.0	144
800	39.0	50.6	170
1000	43.0	56.2	200

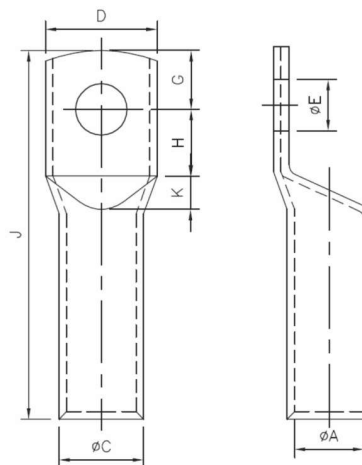
(all dimensions are in mm)



Features :

- Conductivity 99.9% (IACS)
- Long barrel

YAMUNA DENSONS Aluminium Lugs For XLPE Cable (Crimping type)



Dimensions of Aluminium Lugs (Crimping Type) For XLPE Cable

Size mm ²	(Ø)A ±0.3	(Ø)C ±0.3	J ±3	D ±1	E ±0.2	K ±1	H ±1	G ±1	F ±0.5	B ±2
25	7.2	9.6	69	14.0	8.2	7	12	9	2.4	41
35	8.3	11.1	79	16.0	8.2	7	11	11	2.8	50
50	10.1	13.5	81	19.5	10.2	8	13	11	3.4	49
70	10.2	14.5	96	20.5	10.2	8	13	13	4.3	62
95	12.0	16.9	109	23.5	12.7	8	14	14	4.9	73
120	13.7	19.0	114	26.5	12.7	11	15	15	5.3	73
150	15.1	21.1	128	29.5	12.7	11	17	17	6.1	83
185	16.6	23.9	131	33.0	12.7	12	18	18	7.3	83
225	18.6	26.1	140	36.0	12.7	14	20	20	7.5	86
240	19.3	27.2	144	37.5	12.7	14	22	22	7.9	86
300	21.8	30.2	157	42.0	20.3	14	27	27	8.4	89
400	25.0	34.8	187	48.0	20.3	13	30	30	9.8	113
500	28.2	39.1	205	54.0	20.3	15	32	32	10.9	125
630	31.7	44.4	225	61.0	20.3	16	34	34	12.7	140
800	35.7	49.5	250	68.0	20.3	25	39	39	13.8	147
1000	41.0	56.0	280	77.5	20.3	30	45	45	15.0	160

(all dimensions are in mm)

Features :

- Electrolytic grade
- Conductivity 61% (IACS)
- Long barrel

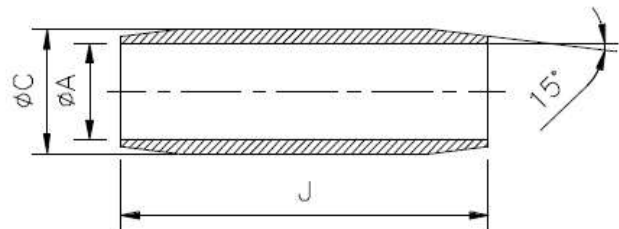
YAMUNA DENSONS Aluminium Ferrules / Inline Connectors for XLPE Cable (Crimping type)



Dimensions of Aluminium Ferrules / Inline Connectors for XLPE Cables

Size mm ²	(Ø)A ±0.3	(Ø)C ±0.3	J ±3
25	7.2	9.6	82
35	8.3	11.1	90
50	10.1	13.5	100
70	10.2	14.5	104
95	12.0	16.9	108
120	13.7	19.0	112
150	15.1	21.2	116
185	16.6	23.9	128
225	18.6	26.1	136
240	19.3	27.2	148
300	21.8	30.2	160
400	25.0	34.8	182
500	28.2	39.1	190
630	31.7	44.4	200
800	35.7	49.5	225
1000	41.0	56.0	250

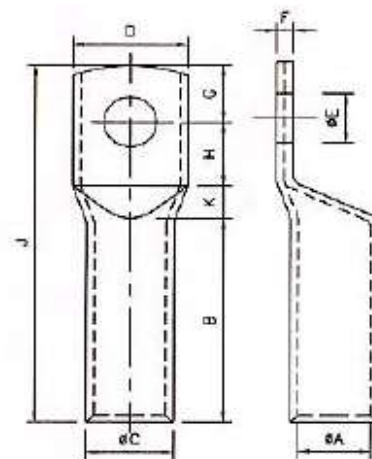
(all dimensions are in mm)



Features :

- Electrolytic grade
- Conductivity 61% (IACS)

YAMUNA DENSONS Aluminium Lugs For PVC/PILC Cable (Crimping type)



Dimensions of Aluminium Lugs (Crimping Type) For PVC/PILC Cable

Size mm ²	(Ø)A +0.3 / -2	(Ø)C +0.3 / -2	J ±3	D ±1	E ±0.2	K ±1	G + H ±1	F ±0.5	B ±2
2.5	2.6	5.5	21.5	7.0	3.7	3	8	2.9	10.5
4	2.9	5.5	21.5	7.0	4.2	3	8	2.6	10.5
6	3.5	5.5	27.5	8.0	5.2	4	13	2.0	10.5
10	4.4	7.4	34.5	10.0	6.4	4	17	2.8	13.5
16	5.4	8.3	43.5	11.0	6.4	4	20	2.9	19.5
25	7.0	10.0	52.0	14.0	8.2	7	21	3.0	24.0
35	8.0	10.8	56.0	15.0	8.2	7	22	2.8	27.0
50	9.3	13.0	65.0	18.0	8.2	8	24	3.7	33.0
70	11.6	16.0	73.0	22.0	10.2	8	26	4.4	39.0
95	12.9	17.1	78.0	25.0	12.7	8	28	4.2	42.0
120	14.8	19.6	89.0	28.0	12.7	11	30	4.8	48.0
150	16.5	21.5	96.0	31.0	12.7	11	34	5.1	51.0
185	18.5	24.0	102.0	34.0	12.7	12	36	5.7	54.0
225	20.6	27.0	114.0	39.0	12.7	14	40	6.4	60.0
240	22.0	28.6	124.0	40.0	16.2	14	44	6.0	66.0
300	25.0	32.0	138.5	46.0	20.3	14	54	7.0	70.5
400	29.0	37.5	158.0	54.0	20.3	13	61	8.5	84.0
500	30.0	41.0	170.0	58.0	20.3	15	65	11.0	90.0
630	35.0	46.0	188.5	66.0	20.3	16	69	11.0	103.5
800	39.0	51.0	218.5	74.0	-	25	78	12.0	115.5
1000	43.5	57.0	270.0	81.0	-	30	90	13.5	150.0
1250	46.6	62.0	270.0	-	-	30	90	15.4	150.0

(all dimensions are in mm)

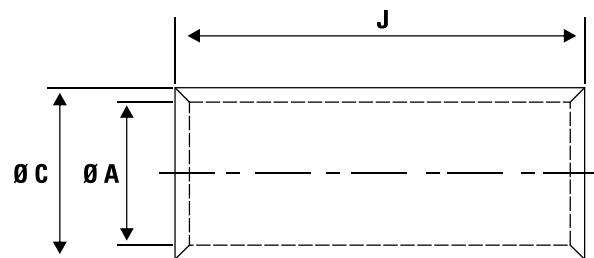
YAMUNA DENSONS Aluminium Ferrules / Inline Connectors for PVC/PILC Cable (Crimping type)



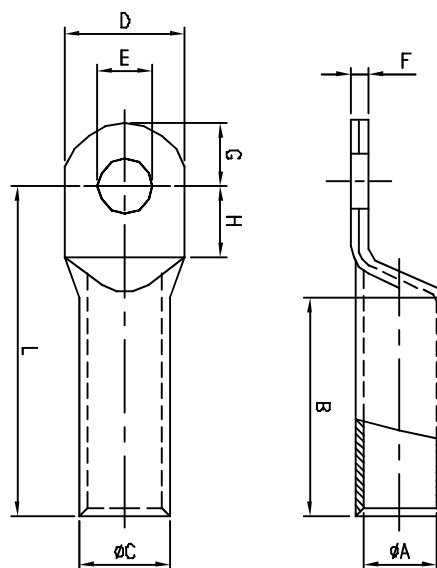
Dimensions of Aluminium Ferrules / Inline Connectors for PVC/PILC Cables

Size mm ²	(\emptyset)A +0.4 -0	(\emptyset)A +0.4 -0	J +3 -0
2.5	2.6	5.5	16
4	2.9	5.5	16
6	3.5	5.5	16
10	4.4	7.4	20
16	5.4	8.3	26
25	7.0	10.0	35
35	8.0	10.8	40
50	9.3	13.0	45
70	11.6	16.0	55
95	12.9	17.1	60
120	14.8	19.6	65
150	16.5	21.5	70
185	18.5	24.0	75
225	20.6	27.0	85
240	22.0	28.6	90
300	25.0	32.0	100
400	29.0	37.5	115
500	30.0	41.0	125
630	35.0	46.0	140
800	39.0	51.0	160
1000	43.5	57.0	210
1250	46.6	62.0	210

(all dimensions are in mm)



YAMUNA DENSONS Tinned Copper Lugs DIN Type (Crimping type)

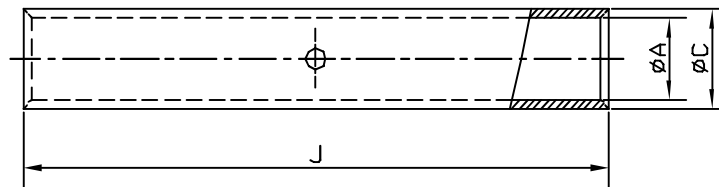


Dimensions of Copper Lugs DIN Type

Size mm ²	ØA	ØC	ØE	B mm	D ±0.1	F ±0.5	G +0 -3	H min.	L +2 -0
6	3.8 ±0.3	5.5	6.4	10	8.5	1.5	9	6	24
10	4.5 ±0.3	6	6.4	10	9	1.5	9	6	27
16	5.5 ±0.3	8.5	8.4/10	20	13	2.5	13	10	36
25	7 ±0.3	10	10.5	20	14	3	15	12	38
35	8.2 ±0.3	12.5	10.5/13	20	17	2.5	15	12	42
50	10 ±0.3	14.5	13	28	20	4	16	13	52
70	11.5 ±0.3	16.5	13	28	24	4.5	16	13	55
95	13.5 ±0.3	19	13	35	28	5	16	13	65
120	15.5 ±0.3	21	17	35	32	5.5	19	16	70
150	17 ±0.3	23.5	17	35	34	6	19	16	78
185	19 ±0.4	25.5	17/13	40	37	6	19	16	82
240	21.5 ±0.4	29	17/13	40	42	6.5	19	16	92
300	24.5 ±0.4	32	17/13	50	48	7	19	16	100
400	27.5 ±0.4	38.6	17/13	70	55	10	25	16	115
500	31 ±0.5	42	21/17	70	60	10	25	20	125
625	34.5 ±0.5	44	21	80	60	10	25	20	135
800	40 ±0.5	52	21	100	75	12	25	20	165
1000	44 ±0.5	58	21	100	85	14	25	20	165

(all dimensions are in mm)

YAMUNA DENSONS Tinned Copper Ferrules DIN Type (Crimping type)

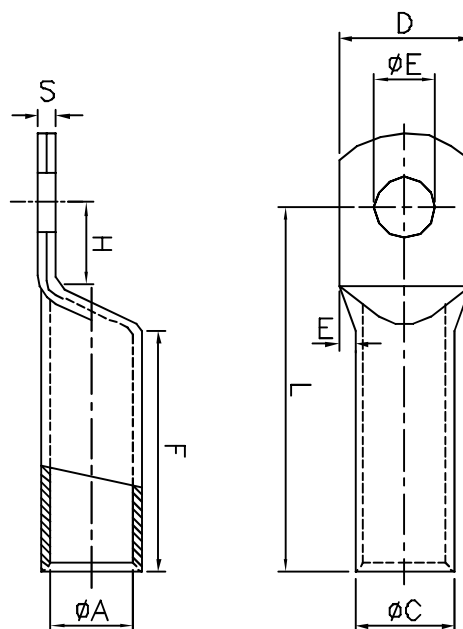


Dimensions of Copper Ferrules DIN Type

Size mm ²	(\varnothing)A	(\varnothing)C	J ± 3
6	3.8 \pm 0.3	5.5	30
10	4.5 \pm 0.3	6	30
16	5.5 \pm 0.3	8.5	50
25	7 \pm 0.3	10	50
35	8.2 \pm 0.3	12.5	50
50	10 \pm 0.3	14.5	56
70	11.5 \pm 0.3	16.5	56
95	13.5 \pm 0.3	19	70
120	15.5 \pm 0.3	21	70
150	17 \pm 0.3	23.5	80
185	19 \pm 0.4	25.5	85
240	21.5 \pm 0.4	29	90
300	24.5 \pm 0.4	32	100
400	27.5 \pm 0.4	38.5	150
500	31 \pm 0.5	42	160
625	34.5 \pm 0.5	44	160
800	40 \pm 0.5	52	200
1000	44 \pm 0.5	58	200

(all dimensions are in mm)

YAMUNA DENSONS Tinned Aluminium Lugs DIN Type (Crimping type)

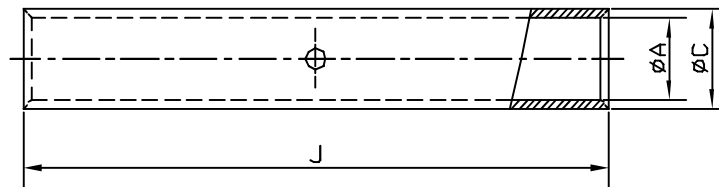


Dimensions of Tinned Aluminium Lugs DIN Type

Size mm ²	ØA	ØC	ØE	D ±1	L +2 -0	S +0.5 -0	E ±1	H min.	F min.
25	6.8 ±0.3	12	10.5	25	50	4	2	15.5	30
35	8 ±0.3	14	10.5	25	62	4	2	15.5	42
50	9.8 ±0.3	16	10.5	25	62	5.5	2	15.5	42
70	11.2 ±0.3	18.5	13	25	72	5.5	2	15.5	52
95	13.2 ±0.3	22	13	25	75	6	2	15.5	56
120	14.7 ±0.3	23	13	30	80	7.5	2	20	56
150	16.3 ±0.3	25	13	30	90	8	2.5	20	60
185	18.3 ±0.4	28.5	13	30	91	8	2.5	20	60
240	21 ±0.4	32	13	38	103	11	2.5	24	70
300	23.3 ±0.4	34	13/17	38	103	13	2.5	24	70
400	26 ±0.4	38.5	17/13	38	116	14	4	24	73
500	29 ±0.5	44	21/17	44	122	15	5	24	79

(all dimensions are in mm)

YAMUNA DENSONS Tinned Aluminium Ferrules DIN Type (Crimping type)

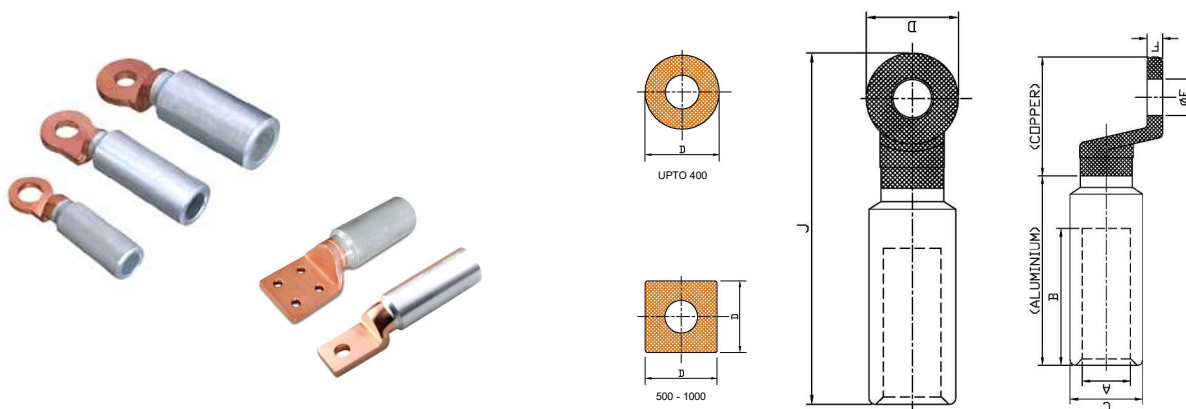


Dimensions of Aluminium Ferrules DIN Type

Size mm ²	(Ø)A	(Ø)C	J ±3
25	6.8 ±0.3	12	70
35	8 ±0.3	14	85
50	9.8 ±0.3	16	85
70	11.2 ±0.3	18.5	105
95	13.2 ±0.3	22	105
120	14.7 ±0.3	23	105
150	16.3 ±0.3	25	125
185	18.3 ±0.4	28.5	125
240	21 ±0.4	32	145
300	23.3 ±0.4	34	145
400	26 ±0.4	38.5	210
500	29 ±0.5	44	210
630	34 ±0.5	50	240

(all dimensions are in mm)

YAMUNA DENSONS Bi-Metallic Lugs (Crimping type)

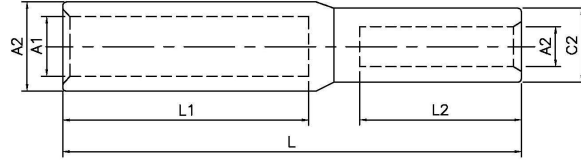


Dimensions For Bi-Metallic Lugs

Size mm ²	(Ø)A ±0.3	(Ø)C ±0.3	D ±3	B ±1	E ±0.2	J ±1	F ±1	Item Code
16	6	12	21	43	8.5	85	4	DBL 16/8
					10.5			DBL 16/10
25	6.8	16	21	43	8.5	85	4	DBL 25/8
					10.5			DBL 25/10
					13			DBL 25/12
35	8	16	21	43	8.5	85	4	DBL 35/8
					10.5			DBL 35/10
					13			DBL 35/12
50	9.8	20	25	43	8.5	90	5	DBL 50/8
					10.5			DBL 50/10
					13			DBL 50/12
70	11.2	20	25	43	10.5	90	5	DBL 70/10
					13			DBL 70/12
					17			DBL 70/16
95	13.2	22	25	56	10.5	100	5	DBL 95/10
					13			DBL 95/12
					17			DBL 95/16
					21			DBL 95/20
120	14.7	22	25	56	13	100	5	DBL 120/12
					17			DBL 120/16
					21			DBL 120/20
150	16.3	25	30	60	13	115	6.0	DBL 150/12
					17			DBL 150/16
					21			DBL 150/20
					25			DBL 150/25
185	18.3	30	30	60	10.5	115	6.0	DBL 185/10
					13			DBL 185/12
					17			DBL 185/16
					21			DBL 185/20
240	21	32	35	70	13	130	7.0	DBL 240/12
					17			DBL 240/16
					21			DBL 240/20
300	23.3	34	35	73	13	146	7.0	DBL 300/12
					17			DBL 300/16
					21			DBL 300/20
400	26	38.5	35	73	17	146	7.0	DBL 400/16
500	29.1	47	60 x 60	94	17	200	10	DBL 500/16
630	32.5	47	60 x 60	94	17	200	10	DBL 630/16
800	37.5	58	80 x 80	120	-	260	10	DBL 800/BL
1000	42	58	80 x 80	120	-	260	10	DBL 1000/BL

(all dimensions are in mm)

YAMUNA DENSONS Bi-Metallic Ferrule (Crimping type)

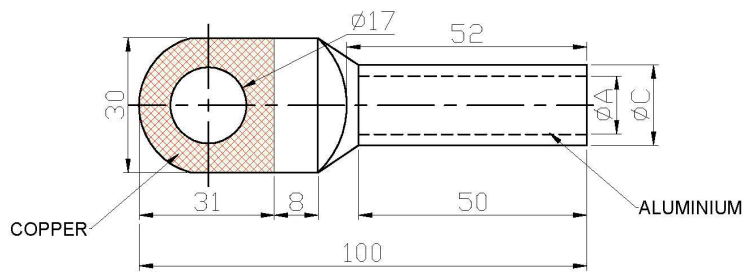


Dimensions For Bi-Metallic Ferrule

Al. Cable Size mm ²	Cu. Cable Size mm ²	A1	C1	A2	C2	L1	L2	L	Item Code
16	10	6	12	4.5	6.2	32	15	60	DBC 16/10
25	10	7	12	4.5	6.2	35	15	65	DBC 25/10
	16	7	12	6	8.5	35	18	65	DBC 25/16
35	16	8	14	6	8.5	40	18	70	DBC 35/16
	25	8	14	7	10	40	20	70	DBC 35/25
50	25	9	15	7	10	45	20	75	DBC 50/25
	35	9	15	8.2	12.5	45	20	75	DBC 50/35
70	35	11.2	20	8.2	12.5	45	20	78	DBC 70/35
	50	11.2	20	10	14.5	45	21	80	DBC 70/50
95	50	13.2	22	10	14.5	47	21	82	DBC 95/50
	70	13.2	22	11.5	15	47	23	85	DBC 95/70
120	50	14.7	23	10	14.5	47	21	82	DBC 120/50
	70	14.7	23	11.5	15	47	23	85	DBC 120/70
	95	14.7	23	14	17.4	47	27	90	DBC 120/95
150	70	16.3	25	11.5	15	50	23	90	DBC 150/70
	95	16.3	25	14	17.4	50	27	92	DBC 150/95
	120	16.3	25	15.0	19.4	50	28	92	DBC 150/120
185	95	18.3	30	14	17.4	55	27	98	DBC 185/95
	120	18.3	30	15.0	19.4	55	28	98	DBC 185/120
	150	18.3	30	16.5	21.2	55	30	100	DBC 185/150
240	120	21	32	15	19.4	60	28	105	DBC 240/120
	150	21	32	16.5	21.2	60	30	108	DBC 240/150
	185	21	32	18.5	23.5	60	35	113	DBC 240/185
300	150	23.3	34	16.5	21.2	60	30	108	DBC 300/150
	185	23.3	34	18.5	23.5	60	35	113	DBC 300/185
	240	23.3	34	21.5	27.5	60	40	115	DBC 300/240
400	240	26	38.5	21.5	27.5	62	40	123	DBC 400/240
	300	26	38.5	24	30.5	62	45	129	DBC 400/300
500	300	30	45	24	30.5	65	45	130	DBC 500/300
	400	30	45	27.5	38.5	65	50	132	DBC 500/400
630	500	35	50	31	42	70	55	142	DBC 630/500

(all dimensions are in mm)

YAMUNA DENSONS Bi-Metallic Lug with Copper Center Palm (Crimping type)



Dimensions For Bi-Metallic Lug with Copper Center Palm

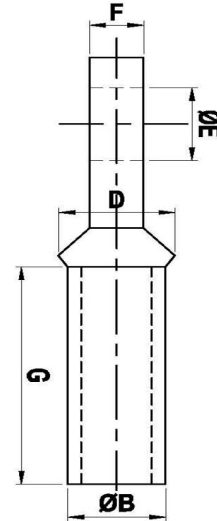
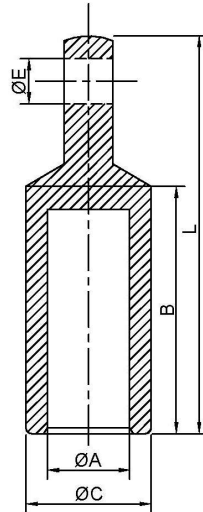
Cable Size mm ²	Stud Hole Dia E	A	C	B	L	Item Code
35	17	8	14	50	100	DBCP35
50	17	10	16	50	100	DBCP50
70	17	12	18	50	100	DBCP70
95	17	13	21	50	100	DBCP95
120	17	15	23	50	100	DBCP120
150	17	16	25	50	100	DBCP150
185	17	18	28	50	100	DBCP185
240	17	20	31	50	100	DBCP240
300	17	22	35	50	100	DBCP300
400	17	25	39	50	100	DBCP400

(all dimensions are in mm)

YAMUNA DENSONS Crimping type Center Palm Lug



Aluminium Center Palm



Copper Center Palm

Dimensions For Aluminium Center Palm

Cable Size mm ²	Stud Hole Dia E	A	C	B	F	L	Item Code
500	M16	29	44	87	17	140	DACP500

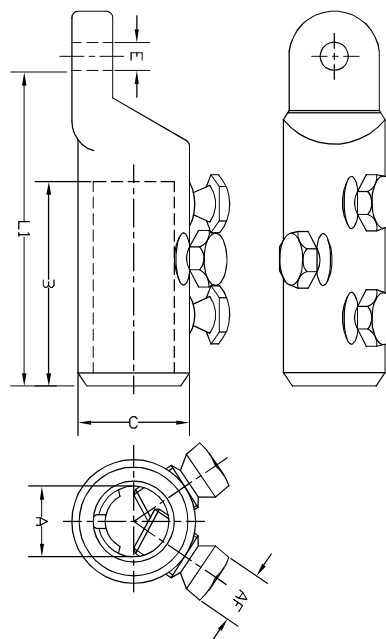
(all dimensions are in mm)

Dimensions For Copper Center Palm

Cable Size mm ²	Stud Hole Dia E	A	B	G	F	L	Item Code
35	17	9	13	51	10	99	DCCP35
50	17	9.5	14	51	10	100	DCCP50
70	17	12	16	51	10	100	DCCP70
95	17	13	18	51	10	100	DCCP95
120	17	15	20	51	10	100	DCCP120
150	17	16	22	51	10	100	DCCP150

(all dimensions are in mm)

YAMUNA DENSONS Shear Head Type Mechanical Lugs



Dimensions of Shear Head Type Connectors

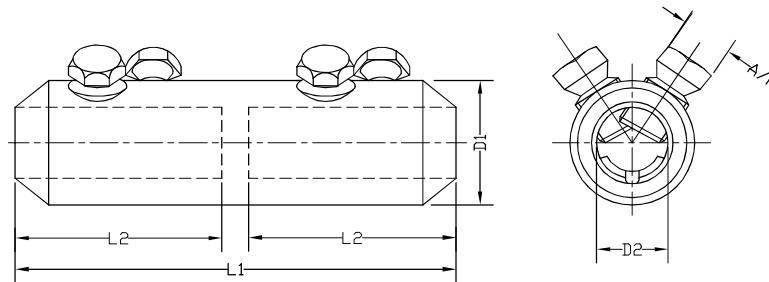
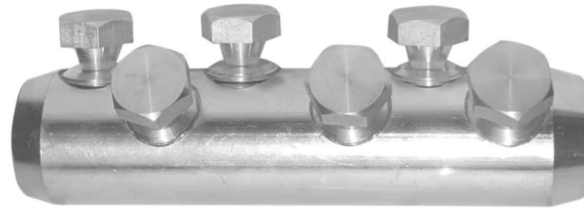
S. No.	Cable Size in mm ² Min.	Dimensions (mm)					No. of Shear Head Type Bolts	Head Size (mm) (AF)
		E	L1	B	C	A		
1	25-95	13	62.5	32	24	12.8	1	13
		17	62.5	32	24	12.8	1	17
2	35-150	13	86	36	28	15.8	1	13
		17	86	36	28	15.8	1	17
3	95-240	13	111.5	65	33	20	2	19
		17	111.5	65	33	20	2	19
4	120-300	13	115.5	70	37	24	2	22
		17	115.5	70	37	24	2	22
5	185-400	13	137	85	42	25.5	3	22
		17	137	85	42	25.5	3	22
		21	137	85	42	25.5	3	22
6	500-630	13	153	110	50	33	3	27
		17	153	110	50	33	3	27
		21	185	130	56	36	4	27
7	800	21	185	130	56	36	4	27

* General Tolerance: $\pm 5\%$

Features :

- Chamfered suitable for upto 42 kV
- Long Shank
- Extra Long for moisture barrier
- Suitable for Indoor and Outdoor Applications
- Made of Special Aluminium Alloy

YAMUNA DENSONS Shear Head Type Mechanical Connectors



Dimensions of Shear Head Type Connectors

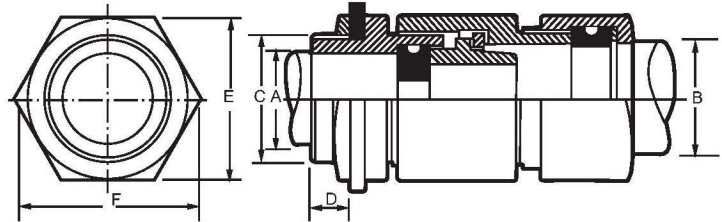
S. No.	Cable Size in mm ²	Dimensions (mm)				No. of Shear Head Type Bolts	Head Size (mm) (AF)	
		Min.	L1	L2	D1			D2
1	10-35		45	20	19	8.5	2	10
2	25-95 B		65	30	24	12.8	2	13
	25-95		65	-	24	12.8	2	13
3	35-150 B		80	38	28	15.8	2	17
	35-150		80	-	28	15.8	2	17
4	95-240 B		125	60	33	20	4	19
	95-240		125	-	33	20	4	19
5	120-300 B		140	68	37	24	4	22
	120-300		140	-	37	24	4	22
6	185-400 B		170	83	42	25.5	6	22
	185-400		170	-	42	25.5	6	22
7	500 B		160	75	46	29.6	6	13
8	630 B		160	75	50	33	6	13
9	800 B		220	105	56	36	6	27

* General Tolerance: ±5%

Features :

- Chamfered suitable for upto 42 kV
- Long Shank
- Extra Long for moisture barrier
- Made of Special Aluminium Alloy

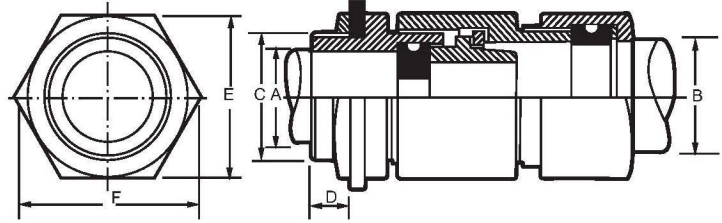
YAMUNA DENSONS Weatherproof Type Double Compression Cable Gland Suitable For Un-Armoured Cables



Dimensions For Double Compression Gland

Cable Dimensions			Gland Dimensions			
A (Dia) mm	B (Dia) mm	Entry Thread		E (Across Flat) mm	F (Across Corner) mm	Item Code
		C (Inches)	D (Length) mm			
13.0	13.0	3/4"	15.0	21.5	24.5	DBW01SS (UN)
14.5	14.5	3/4"	15.0	25.0	29.0	DBW01S (UN)
18.0	18.0	1"	15.0	28.0	32.0	DBW01A (UN)
20.0	20.0	1"	15.0	31.5	36.5	DBW02 (UN)
23.0	23.0	M28	15.0	32.0	37.0	DBW03SP (UN)
26.0	26.0	1.1/4"	15.0	38.0	44.0	DBW04A (UN)
30.0	30.0	1.1/2"	15.0	41.0	47.0	DBW05A (UN)
33.0	33.0	M40	15.0	47.0	54.0	DBW06SP (UN)
36.0	36.0	M42	15.0	52.0	58.0	DBW07SP (UN)
41.0	41.0	2"	15.0	56.0	64.0	DBW08 (UN)
44.0	44.0	2"	15.0	59.0	67.0	DBW09 (UN)
52.0	52.0	2"	20.0	66.5	77.0	DBW010A (UN)
60.0	60.0	M70	20.0	80.0	92.0	DBW011SP (UN)
66.0	66.0	3"	20.0	85.0	97.0	DBW012 (UN)
72.0	72.0	3.1/4"	20.0	90.0	103.0	DBW013 (UN)
80.0	80.0	3.1/2"	20.0	105.0	122.0	DBW014 (UN)
90.0	90.0	4"	20.0	117.0	135.0	DBW015 (UN)

YAMUNA DENSONS Weatherproof Type Double Compression Cable Gland Suitable For Armoured Cables



Dimensions For Double Compression Gland

Cable Dimensions			Gland Dimensions					
A (Under armour Dia) mm	B (Overall Dia) mm	Armour Diameter mm	Entry Thread		D (Length) mm	E (Across Flat) mm	F (Across Corner) mm	Item Code
			C					
			(ET)	(MM)				
8.0	12.0	0.8/1.4	3/4	M20	15.0	21.5	24.5	DBW01SS
11.0	16.5	0.8/1.4	3/4	M20	15.0	25.0	29.0	DBW01S
12.0	18.0	0.8/1.4	3/4	M20	15.0	28.0	32.0	DBW01
12.0	18.0	0.8/1.4	1	M25	15.0	28.0	32.0	DBW01A
14.0	20.0	0.8/1.4	1	M25	15.0	31.5	36.5	DBW02
14.0	20.0	0.8/1.4	3/4	M20	15.0	31.5	36.5	DBW02A
17.0	23.0	0.8/1.4	1	M25	15.0	32.0	37.0	DBW03
20.0	26.0	0.8/1.4	1	M25	15.0	38.0	44.0	DBW04
20.0	26.0	0.8/1.4	1.1/4	M32	15.0	38.0	44.0	DBW04A
24.0	30.0	0.8/1.4	1.1/4	M32	15.0	41.0	47.0	DBW05
24.0	30.0	0.8/1.4	1.1/2	M40	15.0	41.0	47.0	DBW05A
27.0	33.0	0.8/1.4	1.1/2	M40	15.0	47.0	54.0	DBW06
27.0	33.0	0.8/1.4	1.1/4	M32	15.0	47.0	54.0	DBW06A
30.0	37.0	0.8/1.4	1.1/2	M40	15.0	52.0	58.0	DBW07
35.0	41.0	0.8/1.4	2	M50	15.0	56.0	64.0	DBW08
40.0	46.0	0.8/1.4	2	M50	15.0	59.0	67.0	DBW09
46.0	52.0	0.8/1.4	2	M50	20.0	66.5	77.0	DBW010
46.0	52.0	0.8/1.4	2.1/2	M63	20.0	66.5	77.0	DBW010A
50.0	56.0	0.8/1.4	2.1/2	M63	20.0	74.0	85.0	DBW011S
54.0	60.0	0.8/1.4	2.1/2	M63	20.0	80.0	92.0	DBW011
60.0	66.0	0.8/1.4	3	M75	20.0	85.0	97.0	DBW012
66.0	72.0	0.8/1.4	3	M75	20.0	90.0	103.0	DBW013A
72.0	78.0	0.8/1.4	3.1/4	M82	20.0	99.0	113.0	DBW013
78.0	84.0	0.8/1.4	3.1/2	M90	20.0	105.0	122.0	DBW014
88.0	94.0	0.8/1.4	4	M100	20.0	117.0	135.0	DBW015
98.0	105.0	0.8/1.4	4.1/2	M110	20.0	130.0	149.0	DBW016

YAMUNA DENSONS DC2000-E Cable Fireproof Coating



Features :

- Good flexibility
- Strong adhesion
- Good fire protection effect
- Good Insulation performance
- Good anti-corrosion performance
- Environmental protection halogen-free, non-toxic and harmless

Applications :

- Fire protection of cable body and joints
- Fire protection for cable threading at the bottom of switchgear

Technical Data for DC2000-E Cable Fireproof Coating

Property	Requirements	Test Method
The State in the Container	No caking, uniform state after stirring	Visual
Viscosity	>70s	GB/T 1723
Table Dry Time	2-2.5h	GB/T 1728 (Method A)
Full Set Time	About 18h	GB/T 1728 (Method A)
Oil Resistance	No wrinkling, peeling or blistering	GB/T 28374-2012
Flex Resistance	No layer, no peeling no foaming	GB/T 28374-2012

Package

25kg/barrel

YAMUNA DENSONS Insulation Piercing Connector

Application :

Insulating piercing connectors was developed to branch the insulated service cable from main electrical cable, without cutting or peeling insulated cable jacket which improve the efficiency of power cable line deployment.



Features :

- Quick installation speed
- Outdoor Ip68 protection, durable
- No more of stripping the cable's insulation required
- Universal cable application of PV cable 1.5-400 mm², with double jacket's insulation

Specification:

Item Code	Main / Branch Line (mm ²)	Voltage (kV)	Conductor Material
DPC-45P	4-70/1.5-16	AC: 0.4-1.0	Cu or AL Insulated
DPC-45	4-120/1.5-16	AC: 0.4-1.0	Cu or AL Insulated
DPC-52	16-185/1.5-16	AC: 0.4-1.0	Cu or AL Insulated
DPC-54	16-150/4-50	AC: 0.4-1.0 / DC: 2.0	Cu or AL Insulated
DPC-56	25-185/6-35	AC: 0.4-1.0	Cu or AL Insulated
DPC-57	25-150/25-95	AC: 0.4-1.0 / DC: 2.0	Cu or AL Insulated
DPC-257	25-150/25-95	AC: 0.4-10.0	Cu or AL Insulated
DPC-258	35-185/35-185	AC: 6.0-20.0	-
DPC-259	70-240/70-240	AC: 6.0-20.0	-
DPC-395+GB-80	240-300/70	AC: 0.4-15	Cu or AL Insulated
DPC-300	95-300/4-35	AC: 0.4-1.5 / DC: 2.0	Cu or AL Insulated
DPC-395	95-300/95-300	AC: 0.4-15	Cu or AL Insulated
DPC-400	150-400/4-35	AC: 0.6-1.5 / DC: 2.0	Cu or AL Insulated
DPC-1	16-95/1.5-10	AC: 0.4-1.0	AL or AL Insulated
DPC-2	16-95/4-35	AC: 0.4-1.0	AL or AL Insulated
DPC-1N	16-95/1.5-10	AC: 0.4-1.0	AL Insulated / AL Bare
DPC-2N	16-120/4-35	AC: 0.4-1.0	AL Insulated / AL Bare
DPCZ-4-50	4-50	-	Cu or AL Insulated
DPCZ-25-150	25-150	-	Cu or AL Insulated
DPCZ-95-300	95-300	-	Cu or AL Insulated

YAMUNA DENSON'S Safety Products



Safety Helmets



Safety Spectacles



Safety Gloves

















Safety Jackets

Features :

- Peak-less design
- Made of High Polypropylene Co Polymer
- Quadro Corrugation for better strength
- Complete Safety Spectacles
- Adjustable models to fit one and all
- Provide Lighter and Splash protection with excellent vision

International Clients

	<p>Electricity Authority of Cyprus</p>	<p>The Jordanian Electric Power Company Limited</p>	 <p>شركة الكهرباء الأردنية المساهمة العامة المحدودة Jordan Electric Power Company</p>
 <p>شركة الكهرباء والماء التطويرية ذ.م.ق QATAR ELECTRICITY & WATER CO. S.C.</p>	<p>Qatar General Electricity & Water Corporation</p>	<p>Federal Electricity & Water Authority</p>	 <p>الهيئة الاتحادية للكهرباء والماء Federal Electricity & Water Authority</p>
 <p>هيئة كهرباء ومياه دبي Dubai Electricity & Water Authority</p>	<p>Dubai General Electricity & Water Corporation</p>	<p>Power Holding Company of Nigeria</p>	 <p>Power Holding Company of Nigeria Plc</p>
	<p>Electricity Company of Ghana Ltd.</p>	<p>Saudi Electricity Company</p>	 <p>الشركة السعودية للكهرباء Saudi Electricity Company</p>
	<p>The Kenya Power & Lighting Company Limited</p>	<p>Abu Dhabi Water & Electricity Authority</p>	 <p>هيئة مياه وكهرباء أبوظبي Abu Dhabi Water & Electricity Authority</p>
	<p>Gulf Services WLL</p>	<p>Petroleum Development Oman</p>	 <p>شركة تنمية نفط عمان Petroleum Development Oman</p>
 <p>ලංකා විදුලිබල මණ්ඩලය இலங்கை மின்சார சபை CEYLON ELECTRICITY BOARD</p>	<p>Ceylon Electricity Board</p>	<p>Electricity & Water Authority Bahrain</p>	 <p>EWA هيئة الكهرباء والماء Electricity & Water Authority</p>

Domestic Clients

	<p>Bharat Heavy Electricals Limited</p>	<p>ABB Limited</p>	
	<p>Controls & Switchgear Company Limited</p>	<p>Crompton Greaves Ltd.</p>	 <p>Smart solutions. Strong relationships.</p>
	<p>Indian Oil</p>	<p>Havells</p>	
	<p>Power Grid</p>	<p>TATA Power</p>	
	<p>Siemens</p>	<p>Areva</p>	
	<p>Reliance Energy</p>	<p>Larsen & Toubro Limited</p>	
	<p>Bombay Suburban Electric Supply</p>	<p>KEC International Limited</p>	 <p>KEC INTERNATIONAL LIMITED</p>
	<p>Steel Authority of India Limited</p>	<p>NTPC</p>	



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