

The logo for OHUG, consisting of the letters 'O', 'H', 'U', and 'G' in a bold, black, sans-serif font. The letters are arranged vertically and are set against a bright yellow background that has a torn, paper-like edge on its right side. The background of the entire page is a grayscale photograph of a high-voltage electrical substation with multiple pylons and power lines stretching into the distance under a cloudy sky.

OHUG

The power behind electricity

OHUG Product Catalogue

Edition 01

Section 05

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MIL

GSHS-1635F

Flexible Polyolefin Tubing

Special Features

- > It has excellent flame retardance, flexibility, and insulation.

Application

- > Suitable for various electric insulation, strain relief, and bonding of cables and connectors and widely applied for interconnection or termination.
- > Light-duty harnessing, jacketing, bundling, and color coding of electric wires.

Key Specifications

- > Operating temperature range : -55°C ~ 135°C
- > Flammability : UL VW-1, -F- mark (except clear products)
- > Minimum shrink temperature : 90°C
- > Shrink ratio : 50% or more in radial direction

Standards:

UL 224 (File No. E84393 : VW-1, 600V, 125°C, except clear products)

AMS-DTL/5 : 600V, 135°C, Class 1 or Class 3, Class 2 (clear products only)



Properties		Values		Test Methods
Physical	Unaged	Tensile strength	Min. 1.1kgf/mm ²	ASTM D 638 MIL 23053
		Elongation	Min. 200%	
	Aged	Tensile strength	Min. 0.8kgf/mm ²	ASTM D 638 MIL 23053 175°C/168hrs
		Elongation	Min. 100%	
	Heat shock		Pass @250°Cx4hrs	MIL 23053
	Low temperature flexibility		No crack @ -55°Cx4hrs	MIL 23053
Electrical	Secant modulus		Max. 173MPa	ASTM D 882
	Dielectric strength		Min. 19.7kV/mm	ASTM D 2671
	Volume resistivity		Min. 1x10 ¹⁴ Ω - cm	ASTM D 876
Chemical	Fluid resistance	Tensile strength	Min. 0.7kgf/mm ²	MIL 23053 124°C/24hrs
		Dielectric strength	Min. 15.8kV/mm	
	Copper corrosion		No corrosion	MIL 23053 175°C/16hrs
	Copper mirror corrosion		No corrosion	
	Flammability		Pass	UL 224
	Fungus resistance		Pass	ASTM G 21

Available Colours



Black



White



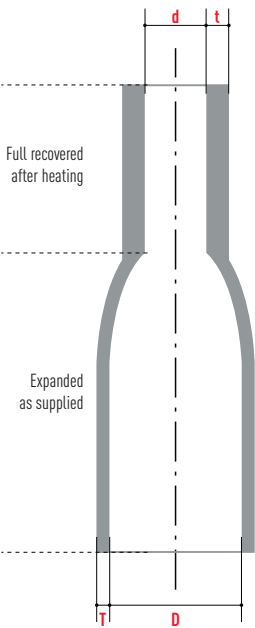
Red



Blue



Clear



Dimension

> Size range: 1 ~ 60 mm.

Product Code	Inside Diameter (mm)		Wall Thickness (mm)		Standard Length (m)
	as supplied D	after recovery Max. d	as supplied Nom. T	after recovery Min. t	
GSHS-1635F 1.2	1.2	0.58	0.20	0.33	1.2
GSHS-1635F 1.6	1.6	0.79	0.20	0.36	1.2
GSHS-1635F 2.4	2.4	1.17	0.25	0.43	1.2
GSHS-1635F 3.2	3.2	1.57	0.25	0.43	1.2
GSHS-1635F 4.8	4.8	2.36	0.25	0.43	1.2
GSHS-1635F 6.4	6.4	3.18	0.30	0.56	1.2
GSHS-1635F 9.6	9.6	4.75	0.30	0.56	1.2
GSHS-1635F 12.7	12.7	6.35	0.30	0.56	1.2
GSHS-1635F 19.1	19.1	9.53	0.35	0.69	1.2
GSHS-1635F 25	25.4	12.70	0.40	0.76	1.2
GSHS-1635F 38	38.1	19.00	0.43	0.86	1.2
GSHS-1635F 50	50.8	25.40	0.50	0.97	1.2
GSHS-1635F 76.2	76.2	38.10	0.60	1.17	1.2
GSHS-1635F 101.6	101.6	50.80	0.70	1.17	1.2
GSHS-1635F 127	127	63.50	0.70	1.17	1.2

Rolls available on request.

2:1



MIL

GSHS-1635F Green/Yellow

Flexible Polyolefin Tubing

Special Features

- > It is specially color-coded: yellow with green stripes.
- > It has excellent flame retardance, flexibility, and insulation.

Application

- > Suitable for various electric insulation, strain relief, and bonding of cables and connectors and widely applied for interconnection or termination.
- > Light-duty harnessing, jacketing, bundling, and color coding of electric wires especially where the international electrical ground designation is intended.

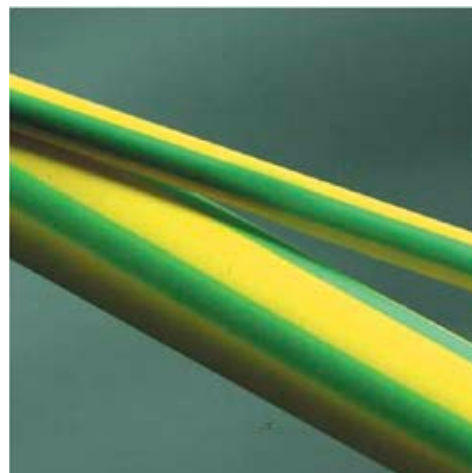
Key Specifications

- > Operating temperature range : -55°C ~ 135°C
- > Flammability : UL VW-1, -F- mark (except clear products)
- > Minimum shrink temperature : 90°C
- > Shrink ratio : 50% or more in radial direction

Standards:

UL 224 (File No. E84393 : VW-1, 600V, 125°C)

UL Approved product name : GSHS- 1635F AMS-DTL/5 : 600V, 135°C, Class 1 or Class 3

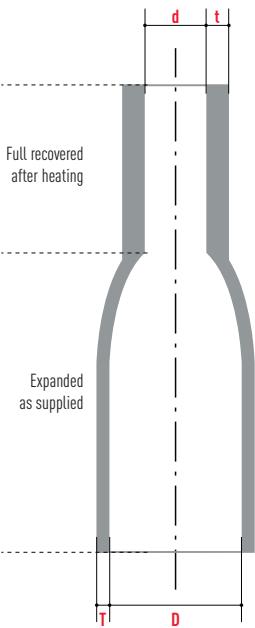


Properties		Values		Test Methods
Physical	Unaged	Tensile strength	Min. 1.1kgf/mm ²	ASTM D 638 MIL 23053
		Elongation	Min. 200%	
	Aged	Tensile strength	Min. 0.8kgf/mm ²	ASTM D 638 MIL 23053 175°C/168hrs
		Elongation	Min. 100%	
	Heat shock		Pass @250°Cx4hrs	MIL 23053
	Low temperature flexibility		No crack @ -55°Cx4hrs	MIL 23053
Electrical	Secant modulus		Max. 173MPa	ASTM D 882
	Dielectric strength		Min. 19.7kV/mm	ASTM D 2671
	Volume resistivity		Min. 1x10 ¹⁴ Ω - cm	ASTM D 876
Chemical	Fluid resistance	Tensile strength	Min. 0.7kgf/mm ²	MIL 23053 24°C/24hrs
		Dielectric strength	Min. 15.8kV/mm	
	Copper corrosion		No corrosion	MIL 23053 75°C/16hrs
	Copper mirror corrosion		No corrosion	
	Flammability		Pass	UL 224
	Fungus resistance		Pass	ASTM G 21

Available Colour



Green/Yellow



Dimension

> Size range: 1 ~ 60 mm.

Product Code	Inside Diameter (mm)		Wall Thickness (mm)		Standard Length (m)
	as supplied D	after recovery Max. d	as supplied Nom. T	after recovery Min. t	
GSHS-1635F 1.2	1.2	0.58	0.20	0.33	1.2
GSHS-1635F 1.6	1.6	0.79	0.20	0.36	1.2
GSHS-1635F 2.4	2.4	1.17	0.25	0.43	1.2
GSHS-1635F 3.2	3.2	1.57	0.25	0.43	1.2
GSHS-1635F 4.8	4.8	2.36	0.25	0.43	1.2
GSHS-1635F 6.4	6.4	3.18	0.30	0.56	1.2
GSHS-1635F 9.6	9.6	4.75	0.30	0.56	1.2
GSHS-1635F 12.7	12.7	6.35	0.30	0.56	1.2
GSHS-1635F 19.1	19.1	9.53	0.35	0.69	1.2
GSHS-1635F 25	25.4	12.70	0.40	0.76	1.2
GSHS-1635F 38	38.1	19.00	0.43	0.86	1.2
GSHS-1635F 50	50.8	25.40	0.50	0.97	1.2
GSHS-1635F 76.2	76.2	38.10	0.60	1.17	1.2
GSHS-1635F 101.6	101.6	50.80	0.70	1.17	1.2

Rolls available on request.

3:1



MIL

GSHS-3635W

Flexible Dual-wall Polyolefin Tubing

Special Features

- > Narrow size range that covers a wide range of diameters, allowing reduced inventory.
- > It can accommodate irregular or jagged shapes.
- > It has excellent flame retardance, flexibility, and insulation.

Application

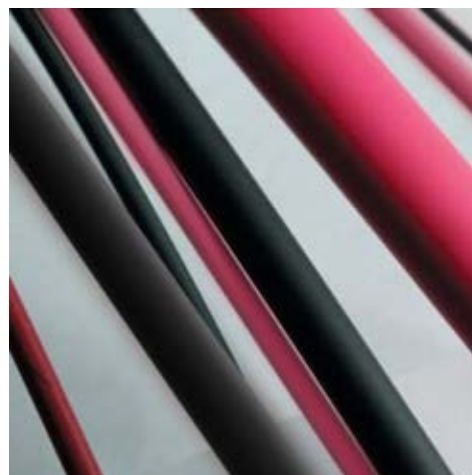
- > Suitable for various electric insulation, strain relief, and bonding of cables and connectors and widely applied for interconnection or termination.
- > Light-duty harnessing, jacketing, bundling, and color coding of electric wires.
- > Upon application of heat over 110oC, Adhesive line meltable.

Key Specifications

- > Operating temperature range : -55°C ~ 135°C (Crosslinked outer wall)
- > Flammability : UL VW-1, CSA OFT (Outside layer only, except clear products)
- > Minimum shrink temperature : 120°C
- > Shrink ratio : 67% or more in radial direction

Standards:

UL 224 (File No. E153276 : 600V, 125oC, except clear products) AMS-DTL/4 Class 3



Properties		Values		Test Methods
Physical	Unaged	Tensile strength	Min. 1.1kgf/mm ²	ASTM D 638 MIL 23053
		Elongation	Min. 200%	
	Aged	Tensile strength	Min. 0.8kgf/mm ²	ASTM D 638 UL224 158°C/168hrs
		Elongation	Min. 100%	
	Heat shock		Pass @250°Cx4hrs	MIL 23053
	Low temperature flexibility		No crack @ -55°Cx4hrs	MIL 23053
Electrical	Secant modulus		Max. 173MPa	ASTM D 882
	Dielectric strength		Min. 19.7kV/mm	ASTM D 2671
	Volume resistivity		Min. 1x10 ¹⁴ Ω - cm	ASTM D 876
Chemical	Fluid resistance	Tensile strength	Min. 0.7kgf/mm ²	MIL 23053 24°C/24hrs
		Dielectric strength	Min. 15.8kV/mm	
	Copper corrosion		No corrosion	MIL 23053 175°C/16hrs
	Copper mirror corrosion		No corrosion	
	Flammability		Pass	ASTM D 2671 Procedure B
	Fungus resistance		Pass	ASTM G 21

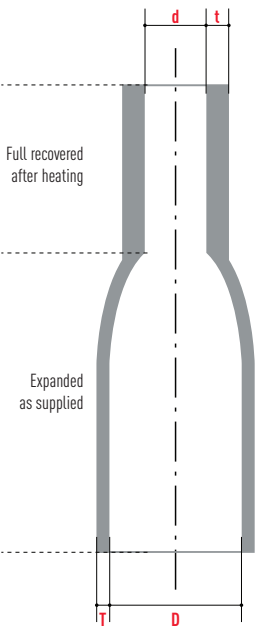
Available Colours



Black



Red (POA)



Dimension

> Size range : 3 ~ 38 mm (1/8 ~ 1.5 inch).

Product Code	Inside Diameter (mm)		Wall Thickness (mm)			Standard Length (m)
	as supplied D	after recovery Max. d	as supplied Nom. T	After Recovery		
				Total Min. t1	Total Min. t2	
GSHS-3635W 3.2	3.2	1.0	0.53	1.00	0.40	1.2
GSHS-3635W 4.8	4.8	1.6	0.48	1.00	0.50	1.2
GSHS-3635W 6.4	6.4	2.1	0.45	1.00	0.59	1.2
GSHS-3635W 9.6	9.6	3.2	0.50	1.20	0.65	1.2
GSHS-3635W 12.7	12.7	4.2	0.50	1.35	0.79	1.2
GSHS-3635W 19.1	19.1	6.4	0.77	2.00	1.09	1.2
GSHS-3635W 25	25.4	8.4	0.70	2.00	0.93	1.2
GSHS-3635W 38	38.1	12.7	0.76	2.00	1.20	1.2

LS-CATV

Adhesive-lined, Flexible, Heavy-wall Polyolefin Tubing

Special Features

- > Its fast and simple installation allows a clean and easy re-entry of the connector.
- > Its high-performance adhesive provides an absolute waterproof encapsulation.
- > It has excellent flexibility and insulation.

Application

- > Excellent cable protection, which fits cable TV network industry.

Key Specifications

- > Operating temperature range : -55°C ~ 135°C
- > Minimum shrink temperature : 120°C
- > Shrink ratio : 67% or more in radial direction

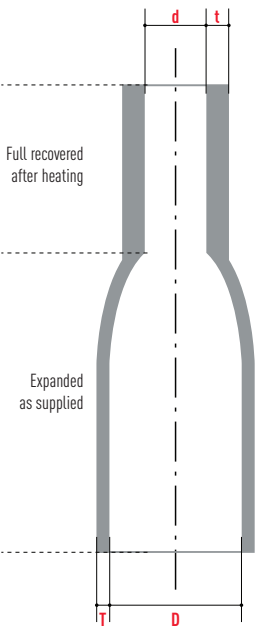


Properties		Values	Test Methods
Physical	Unaged	Tensile strength	Min. 1.06kgf/mm ²
		Elongation	Min. 300%
	Aged	Tensile strength	Min. 0.8kgf/mm ²
		Elongation	Min. 200%
	Heat shock	No crack @225°Cx4hrs	ASTM D 2671
	Adhesive peel strength to	Polyethylene	110N/25mm
		Aluminum	80N/25mm
	Low temperature flexibility	No crack @ -55°Cx4hrs	ASTM D 2671
	Dielectric strength	Min. 13.8kV/mm	ASTM D 149
	Volume resistivity	Min. 1x10 ¹⁴ Ω - cm	ASTM D 257
Chemical	Water absorption	Max. 0.1%	ASTM D 570 23°C/24hrs
	Water penetration	No penetration	50°Cx14days

Available Colour



Black



Dimension

> Size range : 10 ~ 70 mm.

Product Code	Inside Diameter (mm)		Wall Thickness (mm)		Standard Spool Length (m)
	as supplied D	after recovery Max. d	as supplied Nom. T	after recovery Min. t	
CATV 10/3	10.0	3.0	0.70	1.50	1.2
POA	19.0	6.0	0.60	1.50	1.2
POA	27.0	9.0	1.10	2.70	1.2
CATV 33/9	33.0	9.0	1.00	2.70	1.2
POA	38.0	13.0	1.20	3.00	1.2
POA	43.0	13.0	1.10	3.00	1.2
POA	51.0	18.0	1.20	3.00	1.2
POA	70.0	25.0	1.60	3.90	1.2

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LS-PHWT-FR

Flame-retardant Adhesive-lined Heavy-wall Polyolefin Tubing

Special Features

- > Its high performance adhesive provides an absolute waterproof encapsulation.
- > It provides excellent mechanical protection and insulation.

Application

- > Designed for the insulation and encapsulation of wire splicing, electrical connections, jacket repair, and terminations.
- > Suitable for submergible or direct buried installation.

Key Specifications

- > Operating temperature range : -55°C ~ 135°C
- > Flammability : VTFT (IEEE 383)
- > Minimum shrink temperature : 120°C
- > Shrink ratio : 67% or more in radial direction

Standards:

AMS-DTL/15 (up to size 51)

ABS Certificate No. 06-BK 155018

UL 224 (File No. : E84393 600V, 125°C, except clear products)

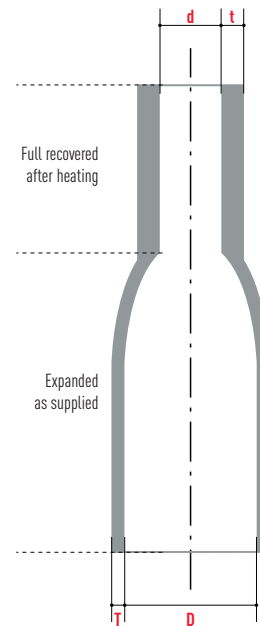


Properties		Values		Test Methods
Physical	Unaged	Tensile strength	Min. 1.06kgf/mm ²	ASTM D 412
		Elongation	Min. 350%	ASTM D 2671
	Aged	Tensile strength	Min. 1.2kgf/mm ²	ASTM D 412
		Elongation	Min. 300%	ASTM D 2671
	Heat shock	No crack @225°Cx4hrs		150°C/168hrs
	Thermal endurance	TI/120mm		ASTM D 2671
Electrical	Low temperature flexibility	No crack @ -55°Cx4hrs		IEC 60216
	Dielectric strength	Min. 14kV/mm		ASTM D 149
	Volume resistivity	Min. 1x10 ¹⁴ Ω - cm		IEC 60093
Chemical	Flammability	Pass		IEEE 383
	Water absorption	Max. 0.1% @23°Cx14days		ASTM D 570
	Fungus resistance	Pass		ASTM G 21
	Retention of tensile strength	24hrs in ASTM No. 2 oil		UL 224
		Min, 75%		ASTM D 412
	Fluid resistance	24hrs in ASTM No. 2 oil		UL 224
		Retention of elongation		ASTM D 412

Available Colour



Black



Dimension

> Size range : 9 ~ 130 mm.

Product Code	Standard Size	Expanded (mm)	Recovered (mm)			Standard Length (m)
		ID after recovery Max. D	ID Nom. d	WT Nom.. T1 Nom. T2		
PHWT-FR9/3	9	9.0	2.2	2.20	1.80	1.2
PHWT-FR13/4	13	13.0	2.4	3.20	2.40	1.2
PHWT-FR20/6	20	20.0	3.8	3.50	2.40	1.2
PHWT-FR33/8	33	33.0	5.6	4.60	3.40	1.2
PHWT-FR43/12	43	43.0	10.0	4.90	3.70	1.2
PHWT-FR51/16	51	51.0	13.2	5.50	4.10	1.2
PHWT-FR70/21	70	70.0	18.2	5.50	4.10	1.2
PHWT-FR90/30	90	90.0	27.2	5.50	4.10	1.2
PHWT-FR105/30	105	100.0	27.2	6.00	4.60	1.2
PHWT-FR130/36	130	130.0	31.7	5.80	4.40	1.2
OHHW 160/50	160	160	50	5.0	4.3	1.2
MPS 20 185/50	185	185	50	5.0	4.4	1.5

3:1



MIL

LS-PMWT-FR

Flame-retardant Adhesive-lined Medium-wall Polyolefin Tubing

Special Features

- > Its high performance adhesive provides an absolute waterproof encapsulation.
- > It provides excellent mechanical protection and insulation.

Application

- > Designed for the insulation and encapsulation of wire splicing, electrical connections, jacket repair, and terminations.
- > Suitable for submergible or direct buried installation.

Key Specifications

- > Operating temperature range : -55°C ~ 135°C
- > Flammability : VTFT (IEEE 383)
- > Minimum shrink temperature : 120°C
- > Shrink ratio : 67% or more in radial direction

Standards:

ABS Certificate NO. 06-BK 155018

AS23053/15 (up to size 51)

UL 224(File No. : E84393 600V, 125°C, except clear products)

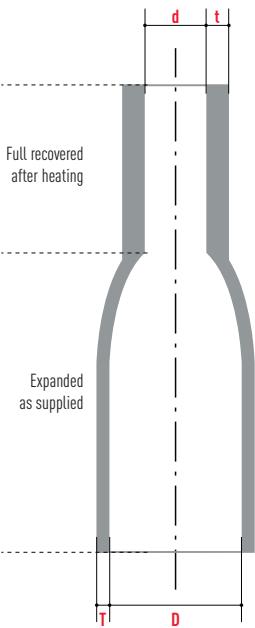


Properties		Values		Test Methods
Physical	Unaged	Tensile strength	Min. 1.1kgf/mm ²	ASTM D 412
		Elongation	Min. 350%	ASTM D 2671
	Aged	Tensile strength	Min. 1.2kgf/mm ²	ASTM D 412
		Elongation	Min. 300%	ASTM D 2671
	Heat shock	No crack @225°Cx4hrs		150°C/168hrs
	Thermal endurance	TI/120mm		ASTM D 2671
Electrical	Low temperature flexibility	No crack @ -55°Cx4hrs		IEC 60216
	Dielectric strength	Min. 14kV/mm		ASTM D 149
	Volume resistivity	Min. 1x10 ¹³ Ω - cm		IEC 60093
Chemical	Flammability	Pass		IEEE 383
	Water absorption	Max. 0.1% @23°Cx14days		ASTM D 570
	Fungus resistance	Pass		ASTM G 21
	Fluid resistance	Retention of tensile strength	24hrs in ASTM No. 2 oil	UL 224
		Retention of elongation	24hrs in ASTM No. 2 oil	ASTM D 412

Available Colour



Black



Dimension

> Size range : 10 ~ 160 mm.

Product Code	Standard Size	Expanded (mm)	Recovered (mm)			Standard Length (m)
		ID after recovery Max. D	ID Nom. d	WT Nom. T1 Nom. T2		
POA	7	7.0	1.5	1.50	1.00	1.2
POA	10	10.0	2.0	1.50	1.00	1.2
POA	16	16.0	3.0	2.80	1.80	1.2
POA	18	18.0	3.3	2.80	1.80	1.2
POA	25	25.0	5.6	3.50	2.30	1.2
POA	27	27.0	5.6	3.50	2.30	1.2
POA	30	30.0	7.6	3.50	2.30	1.2
POA	35	35.0	9.6	3.50	2.30	1.2
POA	40	40.0	10.8	3.50	2.40	1.2
POA	45	45.0	9.6	4.90	3.70	1.2
POA	50	50.0	13.2	4.00	2.60	1.2
POA	63	63.0	18.2	4.70	3.30	1.2
POA	70	70.0	18.2	4.70	3.30	1.2
POA	75	75.0	21.7	4.70	3.30	1.2
POA	85	85.0	21.7	4.70	3.30	1.2
POA	90	90.0	22.0	4.80	3.30	1.2
POA	95	95.0	28.0	4.80	3.30	1.2
POA	100	100.0	30.0	4.80	3.30	1.2
PMWT-FR 115/34	115	115.0	33.0	4.80	3.30	1.2
POA	140	140.0	36.1	4.95	3.65	1.2
POA	160	160.0	45.8	4.60	3.50	1.2

Heatshrink

Wrap Around Zip Sleeves 1500mm Long

Order Code	Description	Pack	Qty
OHWS 55/8	1500mm Wrap Around Zip / Repair Sleeve 55mm	Each	1
OHWS 76/18	1500mm Wrap Around Zip / Repair Sleeve 76mm	Each	1
OHWS 105/28	1500mm Wrap Around Zip / Repair Sleeve 105mm	Each	1
OHWS 140/35	1500mm Wrap Around Zip / Repair Sleeve 140mm	Each	1
OHWS 190/46	1500mm Wrap Around Zip / Repair Sleeve 190mm	Each	1
OHWS 240/50	1500mm Wrap Around Zip / Repair Sleeve 240mm	Each	1



Wrap Around Zip Sleeves 300mm Long

Order Code	Description	Pack	Qty
OHWS3 55/8	300mm Wrap Around Zip / Repair Sleeve 55mm	Each	1
OHWS3 76/18	300mm Wrap Around Zip / Repair Sleeve 76mm	Each	1
OHWS3 105/28	300mm Wrap Around Zip / Repair Sleeve 105mm	Each	1
OHWS3 140/35	300mm Wrap Around Zip / Repair Sleeve 140mm	Each	1
OHWS3 190/46	300mm Wrap Around Zip / Repair Sleeve 190mm	Each	1
OHWS3 240/50	300mm Wrap Around Zip / Repair Sleeve 240mm	Each	1

OHUG Thin Wall Kits

Order Code	Description	Pack	Qty
THIN WALL KIT 1	Kit of GSHS-1635F Thin Wall Heatshrink in 3.2mm, 4.8mm, & 6.4mm (150mm lengths), includes 2 lengths of each colour & size (Red, White, Blue, Black, Green/Yellow)	Each	1
THIN WALL KIT 2	Kit of GSHS-1635F Thin Wall Heatshrink in 9.6mm, 12.7mm, & 19.1mm (150mm lengths), includes 2 lengths of each colour & size (Red, White, Blue, Black, Green/Yellow)	Each	1



Low Voltage 1C Straight Joint

Order Code	Description	Pack	Qty
OHLV500SB	LV Single core 500mm to 500mm straight joint OD cable 36mm incl. shearbolt barrier link	Each	1
OHLVJ-1	1kV Inline Joint 1 Core XLPE Double Insulated PVC Sheathed Cable 10-50mm2 c/w shearbolts	Each	1
OHLVJ-2	1kV Inline Joint 1 Core XLPE Double Insulated PVC Sheathed Cable 35-95mm2 c/w shearbolts	Each	1

Low Voltage 3C Screened Straight Joints

Order Code	Description	Pack	Qty
OHLV3C120	LV 3 Core 120mm screened straight joint	Each	1
OHLV3C185	LV3 Core 240mm screened straight joint	Each	1
OHLV3C300	LV3 Core 300mm screened straight joint	Each	1

Low Voltage 4C Straight Joints

Order Code	Description	Pack	Qty
OHLV4C10-70	10-70mm 4 Core Heatshrink Straight Joint 1kV	Each	1
OHLV4C16-35	16-35mm 4 Core Heatshrink Straight Joint 1kV	Each	1
OHLV4C50-150	50-150mm 4 Core Heatshrink Straight Joint 1kV	Each	1
OHLV4C95-185	95-185mm 4 Core Heatshrink Straight Joint 1kV	Each	1
OHLV4C120-300	120-300mm 4 Core Heatshrink Straight Joint 1kV	Each	1

Low Voltage Armoured Joints

Order Code	Description	Pack	Qty
OHLVJA-3	2.5-16mm Inline heat shrink joint kit for 4-10 core PVC armoured cable	Each	1
OHLVJA-1	16-35mm inline heatshrink joint kit for 2, 3 & 4 Core PVC armoured cable 1kV	Each	1
OHLVJA-2	50-95mm inline heatshrink joint kit for 2, 3 & 4 Core PVC armoured cable 1kV	Each	1
OHLVJA-4	120-150mm Inline heatshrink Joint for 2, 3, 4 Core PVC Armoured Cables	Each	1
OHLVJINS-3	1kV Inline Joint 1 Core N/Screen XLPE Double Insulated PVC Sheathed Cable 10-50mm ² (includes shearbolts)	Each	1
OHLV4CA50-150	50-150mm 4 Core Heat Shrink Straight Joint 1kV Armoured (Steel Wire Armour)	Each	1
OHLVSWA4C70	LV 4 core inline joint XLPE SWA 70mm	Each	1

Copper Tape Kit

Order Code	Description	Pack	Qty
CUTAPE KIT 1	Copper tape kit for 25-95 11kV XLPE	Each	1
CUTAPE KIT 2	Copper tape kit for 95-185 11kV XLPE	Each	1

Heatshrink Bushing Boot Kits (11kV)

Order Code	Description	Pack	Qty
HSSB-2	11kV Inline Bushing Boots (Set of 3) 95-300mm	Each	1
HSAB-1	11kV Right Angle Bushing Boots (Set of 3) 16-35mm	Each	1
HSAB-1A	11kV Right Angle Bushing Boots (Set of 3) 35-70mm	Each	1
HSAB-2	11kV Right Angle Bushing Boots (Set of 3) 95-300mm	Each	1
HSAB-3	11kV Right Angle Bushing Boots (Set of 3) 300-500mm	Each	1

OHBOOT

Order Code	Description	Pack	Qty
OHBOOT	Medium Voltage Cold Applied Silicone Rubber Straight / Right Angled Bushing Boot 17.5kV 30-70mm bushing diameter 35-400mm (set of 3)	Each	1

Coldshrink 3M Inline Barrier Boots (11kV)

Order Code	Description	Pack	Qty
3M962	MB63 11kV Inline Barrier Boot (up to 630mm ²)	Each	1
3M964	MB65 11kV Inline Barrier Boot (up to 1000mm ²)	Each	1





LG-BBHV

High Voltage Bus Bar Insulation Tubing

Special Features

- > Non-halogenated Ethylene propylene rubber.
- > Fast and easy installation/removal.
- > It provides protection against flashover and accidentally induced discharge.
- > It has excellent resistance to corona attack and surface tracking.

Application

- > Tubing for both copper and aluminum bus bars with rectangular/circular cross section.

Standards:

Qualification report for BBHV



Properties		Values	Test Methods
Physical	Unaged	Tensile strength	Min. 1.02kgf/mm2
		Elongation	Min. 300%
	Aged	Tensile strength	Min. 1.02kgf/mm2
		Elongation	Min. 200%
	Heat shock	No crack @225°Cx4hrs	ASTM D 2671
	Thermal endurance	TI/105°C	IEC 60216
Electrical	Low temperature flexibility	No crack @ -40°Cx4hrs	ASTM D 2671
	Dielectric strength	Min. 18kV/mm	IEC 60243
	Volume resistivity	Min. 1x10 ¹⁴ Ω - cm	IEC 60093
	Tracking resistance	Class 1A2.5	IEC 60587
Chemical	Smoke Index	Min. 77	NES 711
	Toxicity Index(HCl)	Max. 2.95	NES 713
	Flammability	Pass	ANSI/IEEE C37.20

Available Colour



Brown



Dimension

> Size range : 15/06 ~ 150/60 mm.

Product Code	Application Range (Busbar,mm) Z(L+t)	D(mm) Inside Diameter		W(mm) Wall Thickness		Standard Spool Length (m)
		as supplied Min.	after recovery Max.	as supplied Nom.	after recovery Nom.	
POA	24~34	15	6	1.1	2.0	25
POA	34~44	25	10	0.9	1.9	25
POA	44~60	30	12	1.1	2.3	30
POA	60~80	40	16	1.1	2.5	30
POA	80~105	50	20	1.1	2.5	30
POA	90~120	60	25	1.1	2.5	30
POA	105~140	75	30	1.1	2.5	30
POA	140~180	100	40	1.1	2.5	30
POA	180~220	120	50	1.3	2.8	30
POA	220~270	150	60	1.1	2.8	30

2.5:1



LG-BBLV

Low Voltage Bus Bar Insulation Tubing

Special Features

- > Medium-wall tubing for the insulation up to 1kV.
- > It provides protection against flashover by an accidental bus bar bridging.
- > It has excellent heat emission.
- > It has excellent UV and weather resistance.
- > It has excellent flame retardance and insulation.
- > It has an outstanding shelf life at 50°C without any deterioration in performance.

Application

- > Suitable for both exposed and enclosed bus bars.
- > Suitable for connection among switchgears, motor control centers and other electrical equipment.
- > Suitable for outdoor use.

Standards:

Qualification report for BBLV

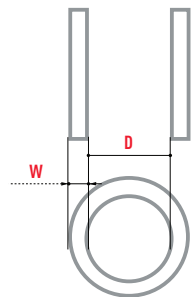
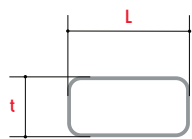


Properties		Values	Test Methods
Physical	Unaged	Tensile strength	Min. 1.2kgf/mm ²
		Elongation	Min. 350%
	Aged	Tensile strength	Min. 1.1kgf/mm ²
		Elongation	Min. 200%
	Heat shock	No crack @225°Cx4hrs	ASTM D 2671
	Thermal endurance	TI/105°C	IEC 60216
	Low temperature flexibility	No crack @ -40°Cx4hrs	ASTM D 2671
Electrical	Impact brittleness	Pass @ -40°C	ASTM D 746
	Dielectric strength	Min. 13kV/mm	IEC 60243
	Volume resistivity	Min. 1x10 ¹³ Ω - cm	IEC 60093
	Tracking resistance	No track	ASTM D 2671
Chemical	Water absorption	Max. 0.5%	ASTM D 570
	Copper corrosion	No corrosion	ASTM D 2671
	Toxicity Index(HCI)	Max. 10	NES 713
	Flammability	Pass	IEEE 27

Available Colour



Black



Dimension

> Size range : 15/06 ~ 175/70 mm.

Product Code	Application Range (Busbar,mm) 2(L+t)	D(mm) Inside Diameter		W(mm) Wall Thickness		Standard Spool Length (m)
		as supplied Min.	after recovery Max.	as supplied Nom.	after recovery Nom.	
POA	24~36	15	6	0.5	1.5	30
BBLV 30	42~76	30	12	0.5	1.5	30
BBLV 50	68~120	50	20	0.5	1.5	30
POA	100~172	75	30	0.5	1.5	30
POA	132~220	100	40	0.5	1.5	30
POA	164~244	120	50	0.5	1.5	30
POA	172~314	150	50	0.5	1.5	30

2:1



MIL

DRET Diesel-resistant, Flexible, Elastomeric Polyolefin Tubing

Special Features

- > It has excellent retardance to fluid and solvent: lubricating oil, ground vehicle fuel, or hydraulic fluid.
- > It has excellent flame retardance and insulation.

Application

- > Suitable for various insulation and strain relief.
- > Abrasion protection for cable harnessing and wire bundling for military industries.

Key Specifications

- > Operating temperature range : -75°C ~ 120°C
- > Flammability : ASTM D 2671 Procedure A, C
- > Minimum Shrink temperature : 135°C
- > Shrink ratio : 50% or more in radial direction

Standards:

AMS-DTL-23053/16

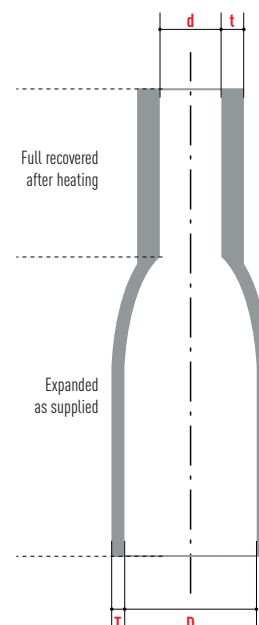


Properties		Values		Test Methods
Physical	Unaged	Tensile strength	Min. 1.20kgf/mm ²	ASTM D 412
		Elongation	Min. 250%	
	Aged	Tensile strength	Max. 1.06kgf/mm ²	ASTM D 412 150°C/168hrs
		Elongation	Max. 200%	
	Heat shock		Pass @200°Cx4hrs	MIL -I-23053
	Low temperature flexibility		No crack @ -65°Cx4hrs	MIL -I-23053
Electrical	Dielectric strength		Min. 11.9kV/mm	ASTM D 2671
	Volume resistivity		Min. 1x10 ¹⁰ Ω - cm	MIL -I-23053
	Restricted shrinkage		No crack @ 2000Vx1min.	AS23053
Chemical	Copper corrosion		No corrosion	121°C/16hrs
	Copper mirror corrosion		No corrosion	135°C/16hrs
	Fluid resistance	Tensile strength	Min. 1.06kgf/mm ²	50°Cx14days
		Elongation	Min. 200%	MIL -I-23053 23°C/24hrs
		Dielectric strength	Min. 7.9kV/mm	MIL -I-23053 23°C/24hrs
	Flammability (Procedure A)		Pass	ASTM D 2671
	Water absorption		Max. 2%	ASTM D 570
	Fungus resistance		Pass	ASTM G 21

Available Colour



Black



Dimension

> Size range : 3/32 ~ 2 inch.

Product Code	Inside Diameter (mm)		Wall Thickness (mm)		Standard Spool Length (m)
	as supplied D	after recovery Max. d	as supplied Nom. T	after recovery Min. t	
POA	2.4	1.20	0.45	0.70	200
POA	3.2	1.57	0.45	0.70	200
POA	4.8	2.36	0.45	0.75	100
POA	6.4	3.60	0.45	0.89	100
POA	9.6	5.40	0.50	1.01	31
POA	12.7	7.30	0.60	1.21	31
POA	15.9	9.10	0.65	1.32	31
POA	19.1	10.90	0.70	1.44	31
POA	25.4	14.50	0.85	1.77	25
POA	31.8	18.10	1.00	2.20	20
POA	38.1	21.80	1.10	2.41	20
POA	50.8	29.00	1.30	2.79	20

Cable End Cap

Application

Protecting the unused cable end from the environmental effects. Insulation on the unused end of electrical cable connected to supply. The caps are suitable for a full range of electrical cable PVC, XLPE, and rubber jackets. Heat shrinkable end caps whose dimension will shrink to a predetermined size upon the application of heat above 125°C.

Typical feature

- > Color : black
- > Coating type : Spiral form.

End Caps

Order Code	Description	Pack	Qty
LS CEC 1501 / IXL 100	Cable End Cap 4.5-15mm	Each	1
LS CEC 2509 / IXL 110	Cable End Cap 8.5-25mm	Each	1
LS CEC 4015 / IXL 120	Cable End Cap 14.5-40mm	Each	1
LS CEC 6324 / IXL 130	Cable End Cap 24-63mm	Each	1
LS CEC 7838 / IXL 140	Cable End Cap 38-78mm	Each	1
LS CEC 10057 / IXL 150	Cable End Cap 57-100mm	Each	1
LS CEC 12057 / IXL 160	Cable End Cap 57-120mm	Each	1
LS CEC 14557 / IXL 170	Cable End Cap 57-145mm	Each	1

End Caps - Extra Long

Order Code	Description	Pack	Qty
CEC 63/25	Cable End Cap (Extra Long) 25-63mm / 170mm	Each	1
CEC 75/35	Cable End Cap (Extra Long) 35-75mm / 180mm	Each	1
CEC 158/60	Cable End Cap (Extra Long) 60-158mm / 165mm	Each	1

End Caps - With Valves

Order Code	Description	Pack	Qty
IXL 121	Cable End Cap - With Valve 14.5-40mm	Each	1
IXL 131	Cable End Cap - With Valve 24-63mm	Each	1
IXL 141	Cable End Cap - With Valve 38-78mm	Each	1
IXL 145V	Cable End Cap - With Valve 45-106mm	Each	1



PVC End Caps

Order Code	Description	Pack	Qty
OHPVC10	PVC Cable End Cap 10mm	Each	1
OHPVC15	PVC Cable End Cap 15mm	Each	1
OHPVC20	PVC Cable End Cap 20mm	Each	1
OHPVC30	PVC Cable End Cap 30mm	Each	1
OHPVC40	PVC Cable End Cap 40mm	Each	1



Cable Breakout

Application

Insulation and sealing over the crutch of multi-core cables. The hot melt adhesive provides a water tight environmental seal to the cable. The LV breakouts are used as an integral part of cable terminations up to 1kV. Heat shrinkable low voltage breakouts whose dimension will shrink to a pre-determined size upon the application of heat above 125°C.

Typical feature

- > Color : black
- > Finger No. : 2~4.
- > Hot melt : poly-amide based hot melt adhesive.

2 CORE Breakout Boots

Order Code	Description	Pack	Qty
LS CB 23310 / IXL 250	2-Core Low Voltage (LV) Breakout Boot 4-35mm	Each	1
LS CB 26022 / IXL 260	2-Core Low Voltage (LV) Breakout Boot 35-150mm	Each	1



3 CORE Breakout Boots

Order Code	Description	Pack	Qty
LS CB 32808 / IXL300	3-Core Low Voltage (LV) Breakout Boot 1-10mm	Each	1
LS CB 33814 / IXL 350	3-Core Low Voltage (LV) Breakout Boot 4-35mm	Each	1
LS CB 36022 / IXL 360	3-Core Low Voltage (LV) Breakout Boot 50-150mm	Each	1
LS CB 38033 / IXL 370	3-Core Low Voltage (LV) Breakout Boot 185-300mm	Each	1
LS CB 311047 / IXL 380	3-Core Low Voltage (LV) Breakout Boot 300-400mm	Each	1
LS CB 312547 / IXL 390	3-Core Low Voltage (LV) Breakout Boot 400-630mm	Each	1



4 CORE Breakout Boots

Order Code	Description	Pack	Qty
LS CB 42808 / IXL400	4-Core Low Voltage (LV) Breakout Boot 1-10mm	Each	1
LS CB 43814 / IXL 415	4-Core Low Voltage (LV) Breakout Boot 4-35mm	Each	1
LS CB 46525 / IXL 420	4-Core Low Voltage (LV) Breakout Boot 35-70mm	Each	1
LS CB 47222 / IXL 430	4-Core Low Voltage (LV) Breakout Boot 70-150mm	Each	1
LS CB 410033 / IXL 440	4-Core Low Voltage (LV) Breakout Boot 185-300mm	Each	1
LS CB 412547 / IXL 450	4-Core Low Voltage (LV) Breakout Boot 300-500mm	Each	1



5 CORE Breakout Boots

Order Code	Description	Pack	Qty
LS CB IXL527	5-Core Low Voltage (LV) Breakout Boot 2.5-95mm	Each	1
LS CB IXL545	5-Core Low Voltage (LV) Breakout Boot 95-300mm	Each	1



Conductive Cable Breakout

Application

The conductive cable breakout used as an integral part of 3-core terminations up to 36kV and also 3-core cable joints up to 36kV

Typical feature

- > Color : black
- > Finger No. : 3.
- > Sealant : butyl rubber based mastic which is electrical insulating and water-proof.



Order Code	Description	Pack	Qty
IXL 310 CON	3-Core High Voltage (MV) CONDUCTIVE Breakout Boot 50/20	Each	1
IXL 320 CON	3-Core High Voltage (MV) CONDUCTIVE Breakout Boot 75/33	Each	1
IXL 330 CON	3-Core High Voltage (MV) CONDUCTIVE Breakout Boot 110/50	Each	1
IXL 340 CON	3-Core High Voltage (MV) CONDUCTIVE Breakout Boot 135/55	Each	1

Cable Breakout for Medium Voltage

Application

Heat shrink non-tracking medium voltage breakouts used for insulation and sealing over the crutch of multi-core cable up to 36kV

Typical feature

- > Color : brown
- > Finger No. : 3.
- > Sealant : butyl rubber based mastic which is electrical insulating and water-proof and anti-tracking



Order Code	Description	Pack	Qty
IXL 310	3-Core High Voltage (MV) Breakout Boot - Sealant In Turrets 50/20	Each	1
IXL 320	3-Core High Voltage (MV) Breakout Boot - Sealant In Turrets 75/33	Each	1
IXL 330	3-Core High Voltage (MV) Breakout Boot - Sealant In Turrets 110/50	Each	1
IXL 340	3-Core High Voltage (MV) Breakout Boot - Sealant In Turrets 135/55	Each	1



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