

## Heat-Shrinkable Products

Channell offers a wide range of heat-shrinkable products for the telecom, LV power and broadband/CATV industries. Manufactured from high quality, tested materials, Channell heat-shrinkable products have been field tested for many years providing excellent protection against water ingress as well as chemical and solvent attack. Suitable for use in all climatic conditions, these products are tough and abrasion resistant, ensuring long-term reliability and service.

The range includes caps, breakouts, sleeves and cable breakouts. This extensive range of quality products support the Channell portfolio of cable jointing closures suitable for a wide variety of cable management applications.

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# Heat-Shrinkable Tubing

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Channell heat-shrinkable tubing is available in three grades:

- PWT premium grade medium wall tubing for use in severe environmental conditions
- MWT medium wall tubing for use in most general purpose applications
- BBT broadband tubing designed specifically to meet broadband CATV industry needs

Tubing is suitable for a wide range of applications in telecoms, low voltage power and broadband industries. It is typically supplied precoated, with hot melt adhesive. When fully recovered, the tubing provides an environmental seal for use in terminating, jointing (splicing), cable sheath repair and protection of cable accessories.



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## Specifications

### Physical

Density	1.04g/cm <sup>2</sup>
Hardness	93 Duro A
Tensile Strength	> 14Mpa
Elongation at Break	> 400%
Shrinkage Temperature	> 90°C
Longitudinal Shrinkage	< 10% max.

### Electrical

Volume Resistance @ 23°C	1017 min. Ohm – cm
Breakdown Voltage	> 18 kV/mm

Both thin and heavy wall tubing are available on request. Please call for details.  
PWT Premium Wall Tubing is also available unlined.

## PWT Premium Wall Tubing

Premium grade medium wall tubing manufactured from a cross-linked semi-rigid polyolefin compound has been developed for use in severe environmental conditions. PWT is available with or without adhesive lining. The adhesive lined tubing forms a reliable environmental seal suitable for terminating, jointing, cable sheath repair and corrosion protection of cable accessories.

### Typical Features

- Excellent physical properties, including flame retardancy, weathering, chemical and solvent resistance
- High UV and abrasion resistance
- Precoated tubes form a long lasting environmental seal
- Continuous operating temperature range (unlined) -55°C to +100°C
- High Shrink ratio (4 to 1)
- Suitable for above ground and buried applications
- Provides mechanical strain relief
- Suitable for polyethylene, PVC and lead sheathed cables
- Available without adhesive lining

**PWT - Premium Wall Tubing Selection Chart**

Item No	Diameter (Internal)		Wall Thickness (Recovered)	Length (mm)	Quantity
	Expanded	Recovered			
PWT11-3-1220	11	3	2.5	1220	Ctn of 60
PWT17-3-1220	17	3	2.5	1220	Ctn of 50
PWT27-6-1220	27	6	3.0	1220	Ctn of 30
PWT43-10-1220	43	10	3.0	1220	Ctn of 15
PWT54-16-1220	54	16	3.0	1220	Ctn of 12
PWT63-18-1220	63	18	3.0	1220	Ctn of 10
PWT72-22-1220	72	22	3.0	1220	Ctn of 10

Note: Customer Minimum Order Quantity is one carton.  
All Orders must be for multiples of cartons.

### Examples:

#### **PWT27-6-1220AP**

Premium Wall Tubing, 27mm expanded diameter, 6mm recovered dia, 1220mm length, adhesive lined and printed

#### **PWT43-10-1220**

Premium Wall Tubing, 43mm expanded dia, 10mm recovered dia, 1220mm length, without adhesive lining and without printing

Technical data sheets and health and safety data sheets are available on request.

## MWT Medium Wall Tubing

MWT medium wall tubing is a co-extruded cross-linked polyolefin with a degree of flexibility suitable for most general purpose applications. MWT provides excellent waterproofing and environmental sealing. For jointing and sealing of cable joints and terminations, connectors and for the protection of cable accessories.

MWT tubing is also suitable for use with low voltage power distribution and control cables (1 kV).

### Typical Features

- Excellent physical properties, including flame retardancy, weathering, chemical and solvent resistance
- Precoated tubes form a long lasting environmental seal
- Continuous operating temperature range (unlined) -55°C to +100°C
- Shrink ratio of 3 to 1
- Suitable for above ground and buried applications
- Provides mechanical strain relief
- Highly resistant to splitting
- Suitable for polyethylene, PVC and lead sheathed cables
- Lightweight and flexible

**MWT - Medium Wall Tubing Selection Chart**

Item No	Diameter (Internal)		Wall Thickness (Recovered)	Length (mm)	Quantity
	Expanded	Recovered			
MWT12-3-1220	12	3	1.5	1220	Ctn of 60
MWT22-6-1220	22	6	2.5	1220	Ctn of 30
MWT27-8-1220	27	8	2.5	1220	Ctn of 30
MWT35-9-1220	35	9	2.5	1220	Ctn of 20
MWT40-12-1220	40	12	2.5	1220	Ctn of 15
MWT50-17-1220	50	17	2.5	1220	Ctn of 12
MWT60-20-1220	60	20	2.5	1220	Ctn of 10
MWT75-22-1220	75	22	2.5	1220	Ctn of 10
MWT95-30-1220	95	30	3.5	1220	Ctn of 12
MWT115-34-1220	115	34	3.5	1220	Ctn of 10

Note: Customer Minimum Order Quantity is one carton.  
All Orders must be for multiples of cartons.

### Examples:

#### **MWT35-9-1220**

Medium Wall Tubing, 35mm expanded diameter, 9mm recovered diameter, 1220mm length, adhesive lined and unprinted.

#### **MWT75-22-1220P**

Medium Wall Tubing, 75mm expanded diameter, 22mm recovered diameter, 1220mm length, adhesive lined and printed

## BBT Broadband Tubing

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BBT tubing has been designed specifically to meet the needs of the broadband CATV industry. It provides mechanical protection and a reliable waterproof seal of cable connectors and tap terminations. BBT tubing is easy to install and shrinks to follow the profile of the object to be protected. Heat sensitive paint indicates correct shrinkage of the tubing.

### Typical Features

- Excellent physical properties, including flame retardancy, weathering, chemical and solvent resistance
- Co-extruded tubing
- Adhesive flows without dripping
- Lightweight and flexible
- Suitable for use in above ground and buried applications
- Provides mechanical strain relief
- Suitable for polyethylene, PVC and lead-sheathed cables
- Easily re-enterable
- Heat sensitive paint indicates correct shrinkage

**BBT - Broadband Tubing Selection Chart**

Item No	Diameter (Internal)		Wall Thickness (Recovered)	Length (mm)	Quantity
	Expanded	Recovered			
BBT28-6-1220P	28	6	2.5	1220	Ctn of 30
BBT35-9-1220P	35	9	2.5	1220	Ctn of 20
BBT43-12-1220P	43	12	2.5	1220	Ctn of 15
BBT60-20-1220P	60	20	2.5	1220	Ctn of 10
BBT70-22-1220P	70	22	2.5	1220	Ctn of 10

Note: Customer Minimum Order Quantity is one carton.  
All Orders must be for multiples of cartons.

# HSS Heat-Shrinkable Sleeves

HSS sleeves are a range of cut length premium wall heat-shrinkable tubing, designed for sealing cables, tubes and conduits to fixed ports, bulkhead fittings and conduit accessories. All HSS sleeves are adhesive lined with a 15mm adhesive-free end to prevent the sleeve drawing away from its fixed position upon shrinking. The adhesive-free end is indicated by a directional arrow.



## Typical Features

- Excellent physical properties, including flame retardancy, weathering, chemical and solvent resistance
- High UV and abrasion resistance
- Precoated sleeves form a long lasting environmental seal
- Continuous operating temperature range (unlined) -55°C to +100°C
- Heat sensitive paint aids in heat application during the sleeve recovery
- Suitable for above ground and buried applications
- Provides mechanical strain relief
- Highly resistant to splitting
- Suitable for polyethylene, PVC and lead sheathed cables
- Heat shrink ratio of 4 to 1

## Specifications

<b>Physical</b>		Shrinkage Temperature	> 90°C
Density	1.04g/cm <sup>2</sup>	Longitudinal Shrinkage	< 10% max.
Hardness	93 Duro A	<b>Electrical</b>	
Tensile Strength	> 14Mpa	Volume Resistance @ 23°C	1017 min. Ohm – cm
Elongation at Break	> 400%	Breakdown Voltage	> 18 kV/mm

### HSS Heat-Shrinkable Sleeves Selection Chart

Part No.	Description	Sold As	Carton Sizes		
			Qty.	Dims (cms)	Wt. (kg)
HSS27-6-100	Heat shrink sleeve 27-6-100	Ea	1000	51 x 49 x 51.5	13
HSS43-10-140	Heat shrink sleeve 43-10-140	Ea	320	51 x 49 x 51.5	12
HSS54-16-140	Heat shrink sleeve 54-16-140	Ea	192	51 x 49 x 51.5	8.5
HSS63-22-140	Heat shrink sleeve 63-22-140	Ea	190	51 x 49 x 51.5	12
HSS90-30-200	Heat shrink sleeve 90-30-200	Ea	75	51 x 49 x 51.5	10

**Note:** All sleeves are supplied with thermochromatic paint on the external surface, are adhesive lined with a 15mm adhesive-free end indicated by an arrow on the exterior. Minimum order quantity is one carton.

#### Example:

**HSS27-6-100** - Heat-Shrinkable Sleeve, 27mm expanded diameter, 6mm recovered diameter, 100mm length

# HSC Premium Heat-Shrinkable End Caps

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## Heat-Shrinkable Caps for Telecommunication and LV Power Cables

HSC heat-shrinkable caps are compatible with most commonly used cable types, including polyethylene, PVC, lead, and rubber sheathed. They are equally suitable for use with pressurised or unpressurised telecommunications cables, as well as low voltage power cables (up to 1kV). Any one size of cap is suitable for a range of cable diameters. HSC caps are approved and used by telecommunications and cable companies throughout the world and are used where a high level of conformance is required.



## Features

- Suitable for pressurised or unpressurised cables
- Provide a long term effective seal against water ingress
- Easy and quick to install, even in confined spaces
- High grade adhesive ensures reliable seal on irregular cable sheaths
- Semi-rigid formulation provides excellent impact resistance
- Suitable for a wide range of cable types
- Valved end caps available for pressurised application
- Suitable for long term applications

## Specifications

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Heat-shrink Material	Cross linked polyolefin
Tensile Strength	> 16 Mpa
Elongation	350%
Density	1.13 gm/cm <sup>3</sup>
Hardness	50 ± Shore D
Thermal Ageing	< 10% change to physical properties
Water Absorption	< 0.2%
Chemical Resistance	To dilute acids, alkalis, salts, etc.
Continuous Temperature	- 40° C to 125° C
Shrink Temperature	120° C

## HSC Heat Shrink Caps - Selection Charts

Caps for Unpressurised Cables					
Part Number	Cable Diameter (mm)		Expanded Length (mm)	Recovered Wall Thickness (mm)	Packed Qtys.
	Min.	Max.			
HSC12-4E	4	9	34	2.0	2000 Bulk
HSC12-4EP-20	4	9	34	2.0	20
HSC12-4/60E	4	9	34	2.0	1200 Bulk
HSC16-6E	6	13	58	2.0	700 Bulk
HSC16-6EP-20	6	13	58	2.0	20
HSC20-8E	8	18	53	2.5	500 Bulk
HSC20-8EP-20	8	18	53	2.5	20
HSC26-11E	13	22	83	2.5	200 Bulk
HSC26-11EP-10	13	22	83	2.5	10
HSC36-15E	17	31	85	3.0	110 Bulk
HSC36-15EP-10	17	31	85	3.0	10
HSC40-17E	18	36	98	3.0	2390 Bulk
HSC40-17EP-10	18	36	98	3.0	10
HSC57-22E	28	50	140	3.0	740 Bulk
HSC57-22EP-10	28	50	140	3.0	10
HSC75-32E	38	70	165	4.0	400 Bulk
HSC75-32EP-10	38	70	165	4.0	10
HSC75-32U	38	70	165	4.0	300 Bulk
HSC100-60U	50	95	200	4.0	189 Bulk
HSC105-45E	55	95	178	4.0	200 Bulk
HSC105-45EP-1	55	95	178	4.0	1
HSC120-60E	70	110	200	4.0	120 Bulk
HSC120-60EP-1	70	110	200	4.0	1
HSC120-60U	70	110	200	4.0	120 Bulk

Note: Customer Minimum Order Quantity is one bag or bulk pack.  
 All orders must be for multiples of packs or bulk quantities.  
**E** = E-type Adhesive  
**P** = Printed  
**U** = Unlined

**Example:**

**HSC12-4EP-20**

Heat Shrink Cap, 12mm expanded diameter, 4mm recovered diameter, lined with E-type adhesive, printed and packed in bags of 20 pcs

Caps for Pressurised Cables - With Air Valves					
Part Number	Cable Diameter (mm)		Expanded Length (mm)	Recovered Wall Thickness (mm)	Packed Qtys.
	Min.	Max.			
HSC20-8TPV-20	8	18	53	2.5	20
HSC26-11TPV-10	13	22	83	2.5	10
HSC36-15TPV-10	17	31	85	3.0	10
HSC40-17TPV-10	18	36	98	3.0	10
HSC57-22TPV-10	28	50	140	3.0	10
HSC75-32TPV-10	38	70	165	4.0	10
HSC105-45TPV-1	55	95	178	4.0	1
HSC120-60TPV-1	70	110	200	4.0	1

Note: Customer Minimum Order Quantity is one pack and orders must be for multiples of packs

Caps for Pressurised Cables - Without Air Valves					
Part Number	Cable Diameter (mm)		Expanded Length (mm)	Recovered Wall Thickness (mm)	Packed Qtys.
	Min.	Max.			
HSC16-6T	6	13	58	2.0	700 Bulk
HSC16-6TP-20	6	13	58	2.0	20
HSC20-8T	8	18	53	2.5	500 Bulk
HSC20-8TP-20	8	18	53	2.5	20
HSC26-11T	13	22	83	2.5	200 Bulk
HSC26-11TP-10	13	22	83	2.5	10
HSC36-15T	17	31	85	3.0	110 Bulk
HSC36-15TP-10	17	31	85	3.0	10
HSC40-17T	18	36	98	3.0	2390 Bulk
HSC40-17TP-10	18	36	98	3.0	10
HSC57-22T	28	50	140	3.0	740 Bulk
HSC57-22-TP10	28	50	140	3.0	10
HSC75-32T	38	70	165	4.0	400 Bulk
HSC75-32TP-10	38	70	165	4.0	10
HSC105-45T	55	95	178	4.0	200 Bulk
HSC105-45TP-1	55	95	178	4.0	1
HSC120-60T	70	110	200	4.0	120 Bulk
HSC120-60TP-1	70	110	200	4.0	1

Note: Customer Minimum Order Quantity is one bag or bulk pack.  
All orders must be for multiples of packs or bulk quantities.

**T** = T-type Adhesive

**P** = Printed

**V** = With Air Valve

### Example:

#### HSC20-8TPV-20

Heat Shrink Cap, 20 mm expanded diameter, 8mm recovered diameter, lined with T-type adhesive, printed, fitted with air valve and packed in bags of 20 pcs

# HSCE Economy Heat-Shrinkable End Caps

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The HSCE economy range of heat-shrinkable caps are a low cost alternative to the HSC premium range of end caps. They are suitable for short term applications or where a high level of conformity is not required.



## Features

- Suitable for use with typical telecoms or power cables
- Quick and foolproof installation using simple tools
- Effective environmental seal
- Good resistance to weathering, moisture contamination and adverse environmental conditions
- Special adhesive lining provides seal on irregular cable sheaths
- Valved caps available for pressurised application

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## Specifications

Heat Shrink Material	Cross Linked Polyolefin
Tensile Strength	12 N/mm <sup>2</sup> (MPa)
Elongation	500%
Density	1.20 gm/cm <sup>3</sup>
Hardness	50 Shore D
Thermal Ageing	10% drop in physical properties
Water Absorption	<0.15%
Chemical Resistance	To dilute acids and alkalis, salts etc.
Continuous Temperature Limit	-40° C to 125° C
Shrink Temperature	120° C

### HSCE Heat Shrink End Caps Selection Chart

Part Number	Cable Diameters (mm)		Expanded Length (mm)	Recovered Wall Thickness (mm)	Packed Qtys.
HSCE12-4	4	8	33	2.3	100
HSCE12-4P	4	8	33	2.3	100
HSCE14-4	4	10	35	2.3	100
HSCE14-4P	4	10	35	2.3	100
HSCE20-8	8	16	55	2.5	20
HSCE20-8P	8	16	55	2.5	20
HSCE30-11	11	26	75	2.3	15
HSCE30-11P	11	26	75	2.3	15
HSCE40-15	15	35	90	3.3	10
HSCE40-15P	15	35	90	3.3	10
HSCE55-25	25	47	125	3.8	6
HSCE55-25P	25	47	125	3.8	6
HSCE63-25	25	55	125	3.8	6
HSCE63-25P	25	55	125	3.8	6
HSCE75-35	35	68	140	3.8	3
HSCE75-35P	35	68	140	3.8	3
HSCE100-45	45	90	160	4.0	2
HSCE100-45P	45	90	160	4.0	2
HSCE130-60	64	120	160	4.6	1
HSCE130-60P	64	120	160	4.6	1
HSCE158-60	64	145	165	4.6	2
HSCE158-60P	64	145	165	4.6	2

Note: Customer Minimum Order Quantity is one pack and orders must be for multiples of packs.

All caps, except 12-4 size, are available with air valves.

**P** = Printed

**Example:**

**HSCE30-11P**

HSCE Heat-Shrinkable End Cap, 30mm expanded diameter, 11mm recovered diameter, adhesive-lined and printed.

# MRT Heat-Shrinkable Closures

MRT closures provide an economic and simple means of jointing fully filled distribution cables up to 100 prs. They are equally suitable for directly buried and joint pit installations. MRT closures use a braided sleeve which smoothes the form of the joint bundle prior to heat shrinking the tubular sleeve. The braided sleeve also provides excellent longitudinal strength. MRT closures are easy to install and are suitable for both new and maintenance work.



*MRT50*

## MRT kit contents:

- Heat-shrinkable tubular sleeve
- Braided sleeve
- Adhesive aluminium foil
- Foil strip or paper tape
- Cleaning sachet
- Abrasive strip
- SL8A/1 connectors
- Screen continuity wire
- Branch clip (extra)

## Features

- Compact installation
- Suitable for direct burial
- Easy & quick to install
- Excellent resistance to chemicals and solvents
- Tough, abrasion and UV resistant materials
- Branch clips available
- Reliable and permanent seal against moisture ingress

### MRT Heat-Shrinkable Closures

Part No.	Capacity Pairs			Max. Butt to Butt Length (mm)	Cable Diameters (mm)		Max Bundle diameter (mm)
	0.4	0.6	0.9		Min.	Max.	
MRT02	2	2	2	65	4	9	15
MRT20	20	10	4	320	6	12	25
MRT50	50	20	15	320	12	18	38
MRT100	100	75	50	320	16	34	50

# HSW Heat-Shrinkable Wraparound Closures

## For unpressurised copper telephone cable networks

The Channell HSW closure is an economic, field proven heat-shrinkable wraparound closure system for primary and secondary cable networks. Seven sizes of closure cover a full range of cables from 5pr to 2400pr. HSW closures are easy to install and are equally suitable for new installation or maintenance work.

HSW closure kits comprise a high performance heat-shrinkable wraparound sleeve, stainless steel channel with clip, aluminum canister/preformed liner and accessories. Branch clips are supplied with each kit. The closures will accept up to three cables at both ends.



## Features

- Easy and quick to install
- Reliable and permanent seal against moisture ingress
- Tough, abrasion, split and UV resistant material
- Excellent resistance to attack by chemicals and solvents
- Suitable for all polyethylene and lead sheathed cables
- Can be directly buried, manhole or aerially installed
- Maintenance-free performance
- Suitable for use in a wide range of temperatures: -55°C to +110°C
- Easily re-entered

### HSW Heat-Shrinkable Wraparound Closures

Kit Type Channell	Max Splice Diameter (mm)	Min Cable Diameter (mm)	Splice Length (mm)	Conductor Size (mm) v prs				Carton Qty.
				0.4	0.5	0.63	0.9	
HSW1	42	8	225	20	20	20	10	24
HSW2	42	8	350	50	50	50	50	24
HSW3	62	22	350	100	100	100	50	18
HSW4	92	30	500	400	400	200	100	18
HSW5	122	38	500	800	800	400	200	15
HSW6	160	42	650	1200	1200	800	400	10
HSW7	210	55	700	2400	2400	-	-	10

Technical data sheets and health and safety data sheets are available on request.

## Specifications

Parameter	Value	Test Method
Tensile Strength	18.5 N/mm <sup>2</sup> (min.)	ISO R-527
Ultimate Elongation	400% (min.)	ISO R-527
Impact Brittleness	Below -40° C	ISO 974
Thermal Ageing (168 hrs. 120° C)		
Tensile Strength	16.0 N/mm <sup>2</sup> (min.)	ISO R-527
Elongation	300%	ISO R-527
Dielectric Strength	14 kV/mm (min.)	ASTM D-149
Chemical Resistance (In 0.1 N sol. of Na <sub>2</sub> SO <sub>4</sub> , NaCl, H <sub>2</sub> SO <sub>4</sub> , NaOH)		
Tensile Strength	16.0 N/mm <sup>2</sup> (min.)	ISO 175
Elongation	300%	ISO 175
ESCR 48 hrs x 50° C	No Cracks	ASTM 1693
Water Absorption in 24 hrs.	0.1% (max.)	ASTM D-570
Torchability	No Split	Internal spec
Peel Strength		
To Polyethylene	100 N/25mm (min.)	Internal spec
To Lead	100 N/25mm (min.)	Internal spec

## HSR Heat-Shrinkable Wraparound Repair Kits

HSR heat-shrinkable wraparound repair kits are used to repair damage to the sheath of telecommunication or low voltage power cables. They can also be used to provide corrosion protection of metallic parts of the cable exposed to polluted environments. HSR repair kits can also be used to protect pipelines which are prone to corrosion. They offer an economic solution to cable damage which would otherwise necessitate additional cable and joints.

Each HSR repair kit is supplied with cleaning tissues, abrasive strip and adhesive aluminium foil. Six sizes cover a full range of cables from 10mm to 240mm diameter and are available in three lengths: 500, 1000 and 1500mm.

### HSR Heat-Shrinkable Repair Kits

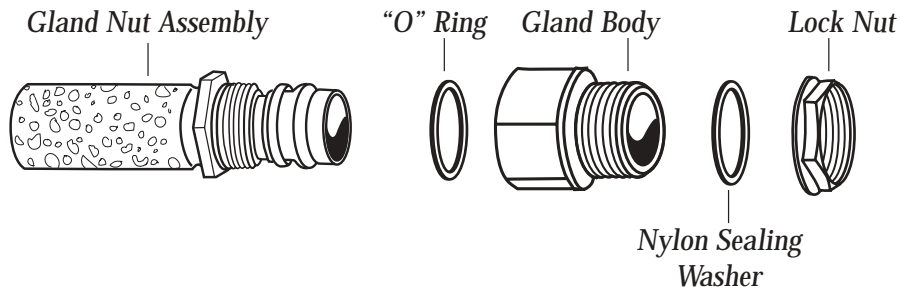
Cable Capacities		
Kit Type	Shrink Ratio (mm)	Suitable for cable diameter (mm)
HSR1	52/10	10 – 35
HSR2	76/22	30 – 50
HSR3	101/30	40 – 75
HSR4	140/38	50 – 100
HSR5	190/42	60 – 125
HSR6	240/55	75 – 160

# HSG Heat-Shrinkable Cable Sealing Glands

HSG cable sealing glands provide a means for taking cables or pipes through bulkheads into waterproof enclosures using standard ISO fittings. Three sizes are available for cable or pipes from 6mm to 22mm.

The body of the sealing gland is molded from tough, UV stabilized nylon 66. The heatshrink sleeve is irradiated UV stabilized polyolefin and sealing washers are made from high quality nylon.

Installation of the heatshrink assembly to the cable or pipe is accomplished away from the installed sealing gland body, preventing heat damage to the enclosure or bulkhead, or to other cables in close proximity. If necessary, existing cables can be removed from the gland body which can then be fitted with a blank to reseal the enclosure.



## Heat-Shrinkable Cable Sealing Glands

Part Number	Pipe/Cable Diameters		Thread Depth (mm)	Bulkhead Thickness (mm)	Hole Size	Gland Seal Body (mm)	Pack Qty.
	Max. Ø (mm)	Min. Ø (mm)					
CSG4 Long	15	5.5	20	10	25	32	1
CSG5 Short	22	6	20	10	32	42	1
CSG6 Long	22	6	20	10	32	42	1

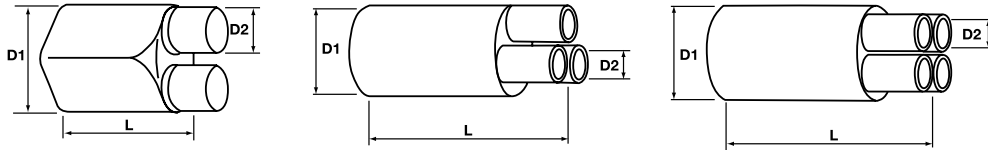
Recommended: Unpressurised continuous operating temperature -20°C to +60°C.  
 Pressurised continuous operating temperature (100KPA max.) -20°C to +50°C.

Technical data sheets and health and safety data sheets are available on request.

# HSB Heat-Shrinkable Cable Breakouts

HSB cable breakouts offer an economic means of terminating low voltage multi-core distribution and service cables. The cable breakouts are made from high-quality, cross-linked polyolefins which possess excellent weathering properties and resistance to chemicals and solvents. The internal surfaces of the cable breakouts are lined with a hot melt adhesive and retain their flexible properties after recovery. HSB breakouts are recommended for use in both open air and with underground cables with PVC, lead or XLPE sheaths.

Application: Sealing spreader caps for all indoor and outdoor applications of polymeric insulated cables.



## Features

- Lined with hot melting adhesive
- Pressure and humidity proof
- Outstanding mechanical, chemical and electrical properties
- UV resistant
- Self-extinguishing
- Halogen-free
- Suitable for LV power cables up to 1 kV
- Material: Cross-linked polyolefin, free of lead and cadmium

## Heat-Shrinkable Cable Breakouts

Rec\* = Recovered

Type	Diameter D1 (mm)	Diameter D1 Rec* (mm)	Length (mm)	Length Rec* (mm)	Diameter D2 (mm)	Diameter D2* Rec* (mm)	Wall Thickness (mm)		Cable Cross Section (mm <sup>2</sup> )
							D1 Rec*	D2 Rec*	
<b>2-Core</b>									
HSB2 33 - 10	33	10	70	90	14	4	2.3	2.3	4 - 35
<b>3-Core</b>									
HSB3 38 - 14	38	14.5	85	100	15	4	2.5	1.6	16 - 35
HSB3 53 - 20	53	20	160	188	25	7.5	3.7	2.8	35 - 120
HSB3 79 - 33	79	33.5	175	225	39	11	4.2	3.2	95 - 185
HSB3 108 - 49	108	49	210	240	55	18	4.5	3.5	150 - 300
HSB3 140 - 58	140	58	230	250	69	28	4.0	3.2	240 - 400
<b>4-Core</b>									
HSB4 41 - 15	41	15	85	102	14	4	2.4	2.1	4 - 35
HSB4 50 - 15	50	15	70	102	15	4	2.4	2.1	4 - 50
HSB4 58 - 26	58	26	140	173	21	6.5	3.7	2.8	35 - 95
HSB4 70 - 29	70	29	160	200	26	8	3.7	3.2	70 - 150
HSB4 92 - 41	92	41	180	220	35	12.5	3.7	2.8	120 - 300
HSB4 110 - 41	110	41	170	220	41	12.5	3.7	2.8	120 - 400
<b>6-Core</b>									
HSB6 85-36	85	36	112	152	24	7	3.2	2.6	35 - 95



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