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November 2010

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HEAT SHRINKABLE PRODUCTS

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BIRCH VALLEY PLASTICS
01752 696 515
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We are an independent manufacturing company at the forefront of Heat Shrinkable and Insulating Tubing manufacture specializing in flexible sleeving, tubing and cable accessory products

Control of our own compounds enables us to manufacture the correct products for the market place, and respond to any customers special needs.

For many years we have been approved by BSI to ISO9001:2008 and are approved as an NVQ center for extrusion techniques.

Customer service is paramount and we believe the success of our business is in meeting the needs of our customers every time and ensuring that they return time and again.

We can offer a wide range of custom extrusions in the following materials :-

- Nylon
- EVA
- Polythene
- Polypropolene
- Elastomers
- Thermoplastic Rubbers

We are able to design and produce profiles and cross head oversheathings of wire and cable as well as special sizes of sleeving and have facilities to cut and print if required and would welcome enquiries for special products.

All information in this catalogue is believed to be reliable. We do, however, advise that customers should evaluate the suitability of our products for their particular application.

We give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaims any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale. In no instance will we be liable for any eventual, indirect or consequential damage arising from the sale, resale, transfer, use or misuse of the product.



P.V.C SLEEVING

P.V.C sleeving is supplied in a wide size range and in eleven colours. In addition to the two grades shown below we can offer material to BS3858, Type 3, which has a thinner wall, and general purpose sleeving which is useful where cost savings are required.

MATERIAL CHARACTERISTICS

	Ref C - GP	Ref. X - 85T	Ref Y - 105T
Continuous temperature	-20 to 70 C	-20 to 85 C	-40 to 105 C
Insulation resistance	10 ¹⁰ Ohm/cm	10 ¹⁰ Ohm/cm	10 ¹² Ohm/cm
Dielectric strength	20 kV/mm	20 kV/mm	25 kV/mm
Tensile strength	15 MPa	15 MPa	18 MPa
Elongation at break	220%	220%	250 %
Hardness	BSS20-30	BSS20-30	BSS25-35
Flammability	self extinguishing in 30 seconds		
Specification	N.A.	BS2848/3/85T	BS2848/3/105T
RoHS compliant	yes	yes	yes

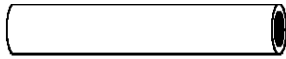
Part no. ref C - GP	Part no. ref. X - 85T	Part no. ref. Y - 105T	Inside dia. mm	Nominal wall mm	Coil size m
C 1	X 1	Y 1	1.0	0.5	100
C 1.5	X 1.5	Y 1.5	1.5	0.5	100
C 2	X 2	Y 2	2.0	0.5	100
C 3	X 3	Y 3	3.0	0.5	100
C 4	X 4	Y 4	4.0	0.5	100
C 5	X 5	Y 5	5.0	0.5	100
C 6	X 6	Y 6	6.0	0.5	100
C 7	X 7	Y 7	7.0	0.5	100
C 8	X 8	Y 8	8.0	0.5	100
C 9	X 9	Y 9	9.0	0.5	100
C 10	X 10	Y 10	10.0	0.5	100
C 12	X 12	Y 12	12.0	0.5	100
C 15	X 15	Y 15	15.0	0.5	100
C 20	X 20	Y 20	20.0	0.5	100
C 25	X 25	Y 25	25.0	0.5	50

Can be supplied in alternative wall thickness or on reels to special order

All sizes available in cut lengths. Clear available in C and X only

Standard colours - black, yellow, red, blue, white, brown, green, violet, grey, orange, pink .

Some colours may be subject to minimum quantities.



P.V.C. SLEEVING U.L.APPROVED

A 105C rated soft P.V.C extruded and approved to UL 224. Highly flame retarded this tubing passes the VW1 flame test. The tubing is rated by Underwriters Laboratories at 300V or 600V depending on the wall thickness ordered.

MATERIAL CHARACTERISTICS

Continuous temperature	-40 to 105 C
Insulation resistance	10 ¹² Ohm/cm
Dielectric strength	25 kV/mm
Tensile strength	22 MPa
Elongation at break	260 %
Hardness	BSS25-35
Flammability	passes VW1 flame test specification
Specification	UL224 File No. E183946
RoHS compliant	yes

Part no Metric 300V	Inside dia. mm	Nom.wall mm 300V	Part no AWG 300V	Inside dia. mm	Nom.wall mm 300V
UL-Y 1 x .4	1.0	0.4	UL-AWG18	1.1	0.4
UL-Y 1.5 x .4	1.5	0.4	UL-AWG17	1.2	0.4
UL-Y 2 x .4	2.0	0.4	UL-AWG16	1.4	0.4
UL-Y 2.5 x .4	2.5	0.4	UL-AWG15	1.5	0.4
UL-Y 3 x .5	3.0	0.5	UL-AWG14	1.7	0.4
UL-Y 4 x .5	4.0	0.5	UL-AWG13	1.9	0.4
UL-Y 5 x .5	5.0	0.5	UL-AWG12	2.2	0.4
UL-Y 6 x .5	6.0	0.5	UL-AWG11	2.4	0.4
UL-Y 7 x .5	7.0	0.5	UL-AWG10	2.7	0.4
UL-Y 8 x .6	8.0	0.6	UL-AWG9	3.0	0.5
UL-Y 9 x .6	9.0	0.6	UL-AWG8	3.4	0.5
UL-Y 10 x .6	10.0	0.6	UL-AWG7	3.8	0.5
UL-Y 12 x .6	12.0	0.6	UL-AWG6	4.2	0.5
UL-Y 14 x .7	14.0	0.7	UL-AWG5	4.7	0.5
UL-Y 16 x .7	16.0	0.7	UL-AWG4	5.3	0.5
UL-Y 20 x .8	20.0	0.8	UL-AWG3	5.9	0.5
UL-Y 25 x .8	25.0	0.8	UL-AWG 2	6.7	0.5
			UL-AWG 1	7.5	0.5
			UL-AWG 0	8.4	0.5

Both metric and AWG sizes are available in 600V and can be supplied on reels or coils. Imperial sizes also approved.

All sizes available in cut lengths. Standard colours - all colours available except clear.



GREEN/YELLOW P.V.C EARTH SLEEVING

GY is a P.V.C. sleeving supplied with green and yellow stripes for use as an earth identification sleeving. In addition to direct use this sleeving is widely sold in the distribution market and for electrical contracting purpose.

MATERIAL CHARACTERISTICS

Continuous temperature	-20 to 70 C
Insulation resistance	10 ¹⁰ Ohm/cm
Dielectric strength	20 kV/mm
Tensile strength	15 MPa
Elongation at break	220%
Hardness	BSS20-30
Flammability	self extinguishing in 30 seconds
Specification	BS2848/3/85T except wall thickness
RoHS approved	yes

Part no.	Inside dia. mm	Nominal wall mm	Coil size m
GY 1.5	1.5	0.4	100
GY 2	2.0	0.4	100
GY 3	3.0	0.4	100
GY 4	4.0	0.4	100
GY 5	5.0	0.45	100
GY 6	6.0	0.45	100
GY 8	8.0	0.45	100
GY 10	10.0	0.45	100
GY 12	12.0	0.45	100
GY 14	14.0	0.45	100
GY 16	16.0	0.45	100
GY 18	18.0	0.45	100
GY 19	19.0	0.45	100
GY 20	20.0	0.45	100
GY 25	25.0	0.45	100

Can be supplied on reels to special order

All sizes available in cut lengths.

Standard colour -green/yellow only.

Larger sizes may be subject to minimum quantities.

 **HALOGEN FREE, LOW SMOKE SLEEVING**

This tubing has been developed to meet the current requirements for a low smoke, halogen free tubing in a similar range of sizes and colours to normal PVC sleeving. Polyolefin based It can be extruded in any size and wall thickness required and the compound meets the requirement of DEF Stan 02-713. This sleeving should be used in all requirements where conventional tubing, including green/yellow earth sleeving, is considered unsuitable.

MATERIAL CHARACTERISTICS

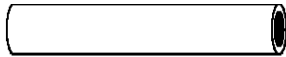
Operating Temperature		-25 to 90 deg C	
Density		1.54	ISO 1183-1
Tensile strength		15 MPa	IEC 60811-1-1
Elongation at break		163%	IEC 6-811-1
Tear strength		5.3 N/mm	BS6469-99-1
Smoke Density	flaming	60 Ds (max)	ASTM E-662
	non flaming	292 Ds	ASTM E-662
Oxygen Index		37%	ISO 4589-2
Toxicity		<1	DEF STAN 02-713
Halogen content		0%	IEC 60754-1
Melt Point after air ageing			
	at 60 deg C	Tensile strength retention >90%	UL 1581 (60 deg C rating)
		Elongation at break retention >70%	
	at 75 deg C	Tensile strength retention >90%	UL 1581 (60 deg C rating)
		Elongation at break retention >60%	
	at 90 deg C	Tensile strength retention >80%	UL 1581 (60 deg C rating)
		Elongation at break retention >60%	
Cold elongation at – 25 deg C		50%	
RoHS compliant			yes

The information given is based on sleeving tests but should be confirmed by customers own tests

Part no.	Nom. supp dia. mm	Nom. wall mm	Coil Length m
ZH 2 X .5	2.0	0.5	100
ZH 3 X .5	3.0	0.5	100
ZH 4 X .5	4.0	0.5	100
ZH 5 X .5	5.0	0.5	100
ZH 6 X .5	6.0	0.5	100
ZH 8 X .5	8.0	0.5	100
ZH 10 X .5	10.0	0.5	100
ZH 12 x 5	12.0	0.5	100
ZH 15 x .5	15.0	0.5	100

Other sizes and wall thickness are available.

Standard colour - all colours available subject to minimum quantities.



EVA TUBING

EVA Extrusions are available in a wide range of vinyl acetate contents with varying hardness's and softening points. They are used as meltable liners under heatshrink tubing, thread protection, fibre optic support and as an alternative to PVC sleeving. They range from fully transparent to slightly opaque, they are halogen free and comply with RoHS regulations and are non toxic.

All EVA extrusions have excellent low temperature properties and melting points from 50 to 100 deg C.

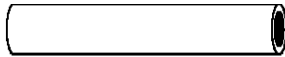
TYPICAL PROPERTIES

Density	0.93
Tensile strength	19/30 Mpa
Elongation at break	750%
RoHS compliant	yes

Part no.	Nom. supp dia. mm	Nom. wall mm	Approx. reel size m
EVA0.5 x .15	0.5	0.15	500
EVA1 x .3	1.0	0.3	500
EVA1.35 x .1	1.35	0.1	500
EVA1.5 x .2	1.5	0.2	500
EVA1.6 x .2	1.6	0.2	500
EVA1.7 x .3	1.7	0.3	500
EVA1.8 x .6	1.8	0.6	500
EVA3.1 x .3	3.1	0.3	500

The above are indicative sizes and any alternative sizes can be manufactured to order.

Standard colour - natural



ACRYLIC GLASS SLEEVING VIDAFLEX 942

Vidaflex 942 AGS is tough flexible insulating sleeving based on a close braided E type glass yarn coated with acrylic resin together giving a high quality product performing under exacting standards. Widely used in class F motors, transformers and where coolants FREON 12 and 22 are used.

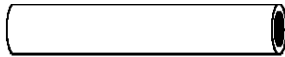
MATERIAL CHARACTERISTICS

Continuous temperature	-25 to 155 C
Intermittent temperature	200 C
Dielectric strength	2.5 kV
Resistance to flam	longer than 45 seconds for 25mm
Copper corrosion	nil
Resistance to fungus	inert
Resistance to chemicals	excellent
acids, alkalis	swells but does not separate
organic solvents	IEC 684-3 403/405
Specification	Yes
RoHS compliant	

Part no.	Nominal inside dia. mm	Nominal wall mm (min)	Coil size m
AGS 1	1.0	0.35	500
AGS 2	2.0	0.35	250
AGS 3	3.0	0.45	250
AGS 4	4.0	0.45	100
AGS 5	5.0	0.5	100
AGS 6	6.0	0.5	100
AGS 7	7.0	0.5	100
AGS 8	8.0	0.65	100
AGS 10	10.0	0.65	50
AGS 12	12.0	0.63 – 0.71	50
AGS 14	14.0	0.67 – 0.71	50
AGS 16	16.0	0.71 – 0.73	50
AGS 20	20.0	0.92 – 1.02	50

Standard colour – black

Yellow available in AGS 1 – 12 but minimum quantities apply



SILICONE RESIN COATED SATURATED BRAIDED GLASS SLEEVING VIDAFLEX 111

A glass braid sleeving that is impregnated with a specially formulated silicone resin giving a continuous operating temperature of 250C but which will tolerate short term operations up to 450C. Vidaflex 111 is widely used in Class C rated traction motors and transformers and as additional protection over cables.

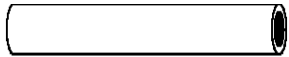
MATERIAL CHARACTERISTICS

Continuous temperature	-60 to 220 C
Intermittent temperature	450 C
Dielectric strength	0.8kV
Thermal Classification	Class C 220C
Flammability	Non-ignitable
Specifications	IEC 684-3-402 except voltage proof ASTM D-372 Type 4
RoHS compliant	yes

Part no.	Nominal inside dia. mm	Nominal wall mm (min)	Reel size m
SSG 2	2.0	0.3 – 0.5	250
SSG 3	3.0	0.3 – 0.5	250
SSG 4	4.0	0.3 – 0.5	100
SSG 5	5.0	0.3 – 0.5	100
SSG 6	6.0	0.5 – 0.7	100
SSG 8	8.0	0.5 – 0.7	100
SSG 10	10.0	0.5 – 0.7	50
SSG 12	12.0	0.5 – 0.7	50
SSG 16	16.0	0.7 – 1.2	50

All sizes available in cut lengths.

Standard colour – natural



SILICONE COATED GLASS SLEEVING VIDAFLEX SD550

A close braided sleeving which is coated with silicone rubber giving good dielectric strength and moisture resistance. SRG is extremely flexible and has good resistance to transformer oils, weak acids, liquid fuels, water etc. Suitable for Class H & C applications up to 220C.

MATERIAL CHARACTERISTICS

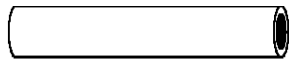
Continuous temperature	-60 to 180 C
Intermittent temperature	250 C
Dielectric strength	4.0 kV
Thermal Classification	Class H 180C
Flammability	Self extinguishing
Specifications	IEC 684-3-402
	ASTM D-372 Type 5
	NEMA VS-1 Grade C1
Rohs compliant	yes

Part no.	Nominal inside dia. mm	Nominal wall mm (min)	Reel size m
SRG 1	1.0	0.6	250
SRG 2	2.0	0.6	250
SRG 2.5	2.5	0.6	250
SRG 3	3.0	0.6	250
SRG 4	4.0	0.6	100
SRG 5	5.0	0.6	100
SRG 6	6.0	0.6	100
SRG 7	7.0	0.6	100
SRG 8	8.0	0.8	100
SRG 9	9.0	0.8	100
SRG 10	10.0	0.8	50
SRG 12	12.0	0.8	50
SRG 16	16.0	0.8	50
SRG 20	20.0	0.8	50

All sizes available in cut lengths.

Standard colours – black

Some sizes available in red oxid



SILICONE COATED GLASS SLEEVING UL APPROVED VIDAFLEX S550

A close braided sleeving which is coated with silicone rubber giving good dielectric strength and moisture resistance. SRGU is the same as SRG but has UL approval to 600V.

MATERIAL CHARACTERISTICS

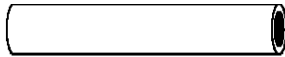
Continuous temperature	-60 to 180 C
Intermittent temperature	250 C
Dielectric strength	4.0 kV
Thermal Classification	Class H 180C
Flammability	Self extinguishing
Specifications	IEC 684-3-402
	ASTM D-372 Type 5
	NEMA VS-1 Grade C1
	UL rating 600V
	yes

Rohs compliant

Part no.	Nominal inside dia. mm	Nominal wall mm (min)	Reel size m
SRGU 1	1.0	0.8	250
SRGU 2	2.0	0.8	250
SRGU 2.5	2.5	0.8	250
SRGU 3	3.0	0.8	250
SRGU 4	4.0	0.8	100
SRGU 5	5.0	0.8	100
SRGU 6	6.0	0.8	100
SRGU 7	7.0	0.8	100
SRGU 8	8.0	0.8	100
SRGU 9	9.0	0.8	100
SRGU 10	10.0	0.9	50
SRGU 12	12.0	0.9	50
SRGU 16	16.0	0.9	50
SRGU 20	20.0	0.9	50

All sizes available in cut lengths.

Standard colour – black only



HEAT TREATED BRAIDED GLASS SLEEVING VIDAFLEX L124

Vidaflex L 124 HTG is an uncoated heat treated glass yarn which has an operating temperature of 200C but will withstand short term operation up to 600C. Suitable for use in high temperature applications and as reinforcement and heat protection on cables.

MATERIAL CHARACTERISTICS

Continuous temperature	-25 to 220 C
Intermittent temperature	600 C
Melt temperature	700 C
Thermal Classification	Class C 220 C
RoHS compliant	Yes

Part no.	Nominal inside dia. mm	Nominal wall mm (min)	Coil size m
HTG 4	4.0	0.35 – 0.7	100
HTG 5	5.0	0.35 – 0.7	100
HTG 6	6.0	0.35 – 0.7	100
HTG 7	7.0	0.35 – 0.7	100
HTG 8	8.0	0.35 – 0.7	100
HTG 10	10.0	0.35 – 0.7	50
HTG 12	12.0	0.35 – 0.7	50
HTG 14	14.0	0.35 – 0.7	50
HTG 20	20.0	0.35 – 0.7	50
HTG 25	25.0	0.35 – 0.7	50

All sizes available in cut lengths.

Standard colour – natural only



NEOPRENE SLEEVING

A sleeving containing no natural rubber that is extruded from a special compound of Polychloroprene which has a reasonable resistance to ozone, mineral oils, U.V., aromatic fuels etc. A very high degree of elasticity makes it ideal as a binding sleeve for harnessing and the identification of cable looms.

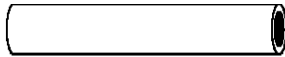
MATERIAL CHARACTERISTICS

Continuous temperature	-65 to 95 C
Intermittent temperature	120 C
Volume resistivity	10 ¹² Ohm/cm
Hardness	50 Shore A
Resistance to mineral & vegetable oils, fuels	Good
Resistance to moisture, ozone & UV	Good
Stretch factor	x 5 whilst fitted x 2 when fitted
Shelf life	7 + 3 years
Specification	BS3858/1 except light fastness BS3G198 Part 1 Type 1 Def Stan 59-15, Type D2c
RoHS compliant	yes

Part no.	Nom. supp dia. mm	Nom. wall mm	Approx. coil size m	Sleeve Part no.	Length mm
CR12	1.2	0.7	170	CR12 x 20	20
CR15	1.5	0.8	170	CR15 x 20	20
CR20	2.0	0.8	160	CR20 x 20	20
CR30	3.0	0.8	130	CR30 x 25	25
CR50	5.0	1.05	80	CR50x 25	25
CR75	7.5	1.25	50	CR75 x 25	25
CR100	10.0	1.5	random lengths	CR100 x 25	25

Standard lengths shown above but all sizes available in other cut lengths to order.

Standard colour – black only .



SILICONE RUBBER SLEEVING

Silicone rubber has a good resistance to low and high temperatures and has good compatibility with numerous chemicals and has excellent ageing characteristics. Extremely useful for cable harnessing because of its high elasticity and flexibility.

MATERIAL CHARACTERISTICS

Continuous temperature	-60 to 180 C
Intermittent temperature	250 C
Tensile strength	10 MPa
Insulation resistance dry	10 x 10 ² Ohm/cm
Elongation at break	450 %
Hardness	60 IRHD
Tear strength	18 kNm ⁻¹
Specification	BS2848/5/180TB
RoHS compliant	yes

Part no.	Nom. supplied dia. mm	Nominal wall mm	Coil size m
SR 0.5 X .5	0.5	0.5	50
SR 0.75 X .5	0.75	0.5	50
SR 1 X .5	1.0	0.5	50
SR 1.5 X .5	1.5	0.5	50
SR 2 X .5	2.0	0.5	50
SR 2.5 X .5	2.5	0.5	50
SR 3 X .5	3.0	0.5	50
SR 4 X .5	4.0	0.5	25
SR 5 X .5	5.0	0.5	25
SR 6 X .5	6.0	0.5	25
SR 8 X .5	8.0	0.5	25
SR 10 X .5	10.0	0.5	25

All sizes available in cut lengths.

Standard colour -black but many other colours held in stock

Other colours and wall thickness available subject to minimum quantities.



P. T. F. E. SLEEVING

Polytetrafluoroethylene sleeving is used principally where a high operating temperature is required. PTFE benefit from a very low coefficient of friction and a high dielectric strength, excellent chemical resistance to most acids, alkalis and petroleum products. To BS2848 Type 6 Class 250T.

MATERIAL CHARACTERISTICS

Continuous temperature	-65 to 250 C
Melting point	+327 C
Dielectric strength	24 kV/mm
Tensile strength	24-35 MPa
Elongation at break	250 to 450%
Volume resistivity	1 x 10 ¹⁶ ohm min
Surface resistivity	1 x 10 ¹⁷ ohm min
Insulation resistance	1 x 10 ¹¹ ohm min
Flammability	non flammable
RoHS compliant	yes

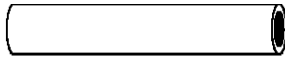
Part no.	Nom. supplied dia. mm	Nominal wall mm	Part no.	Nom. supplied dia. mm	Nominal wall mm
TW 30	0.33	0.20	TW 12	2.10	0.30
TW 28	0.38	0.23	TW 11	2.40	0.30
TW 26	0.51	0.25	TW 10	2.70	0.30
TW 24	0.58	0.25	TW 9	3.00	0.38
TW 22	0.71	0.25	TW 8	3.40	0.38
TW 20	0.89	0.30	TW 7	3.75	0.38
TW 19	1.00	0.30	TW 6	4.22	0.38
TW 18	1.10	0.30	TW 5	4.75	0.38
TW 17	1.20	0.30	TW 4	5.35	0.38
TW 16	1.40	0.30	TW 3	6.00	0.38
TW 15	1.50	0.30	TW 2	6.70	0.38
TW 14	1.70	0.30	TW 1	7.50	0.38
TW 13	1.90	0.30	TW 0	8.40	0.38

Size	Min Qty	Reel Qty	Size	Min Qty	Reel Qty
TW 30 - TW 26	1000m	500m	TW 24 - TW 14	500m	500m
TW 13 - TW 11	250m	250m	TW 10	200m	200m
TW 9	150m	150m	TW 8 - TW 0	100m	100m coils

STW thin wall and HTW thick wall available to order

Standard colour – natural

Other colours, sizes and cut pieces available to order.



P. T. F. E. SUPER THIN WALL SLEEVING

Polytetrafluoroethylene sleeving is used principally where a high operating temperature is required. PTFE benefit from a very low coefficient of friction and a high dielectric strength, excellent chemical resistance to most acids, alkalis and petroleum products. To BS2848 Type 6 Class 250T.

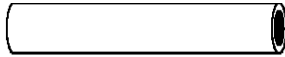
MATERIAL CHARACTERISTICS

Continuous temperature	-65 to 250 C
Melting point	+327 C
Dielectric strength	24 kV/mm
Tensile strength	24-35 MPa
Elongation at break	250 to 450%
Volume resistivity	1 x 10 ¹⁶ ohm min
Surface resistivity	1 x 10 ¹⁷ ohm min
Insulation resistance	1 x 10 ¹¹ ohm min
Flammability	non flammable
RoHS compliant	yes

Part no.	Nom. supplied dia. mm	Nominal wall mm	Nominal mtr Reel/coil qty	Part no.	Nom. supplied dia. mm	Nominal wall mm	Nominal mtr Reel/coil qty
STW 30	0.33	0.15	300	STW 14	1.73	0.20	90
STW 28	0.41	0.15	200	STW 13	1.93	0.20	80
STW 26	0.51	0.15	180	STW 12	2.16	0.20	80
STW 24	0.58	0.15	180	STW 11	2.44	0.20	80
STW 22	0.71	0.15	180	STW 10	2.72	0.20	100
STW 20	0.89	0.18	160	STW 9	3.02	0.20	130
STW 19	1.02	0.18	125	STW 8	3.43	0.20	120
STW 18	1.14	0.20	130	STW 7	3.84	0.20	100
STW 17	1.27	0.20	90	STW 6	4.29	0.20	80
STW 16	1.42	0.20	100	STW 5	4.83	0.20	80
STW 15	1.57	0.20	75	STW 4	5.44	0.25	80

Size	Minimum qty	Size	Minimum quantity	Size	Minimum quantity
STW30	1200 mtrs	STW28	1200 mtrs	STW22-26	1080 mtrs
STW20	960 mtrs	STW19	875 mtrs	STW18	780 mtrs
STW17	630 mtrs	STW16	600 mtrs	STW15	450 mtrs
STW14	360 mtrs	STW11-13	240 mtrs	STW10	300 mtrs
STW9	260 mtrs	STW8	240 mtrs	STW7	200 mtrs
STW4- 6	160 mtrs	Minimum quantities will not apply if material is in stock			

Standard colour – natural, other colours available



P. T. F. E. HEAVY WALL SLEEVING

Polytetrafluoroethylene sleeving is used principally where a high operating temperature is required. PTFE benefit from a very low coefficient of friction and a high dielectric strength, excellent chemical resistance to most acids, alkalis and petroleum products. To BS2848 Type 6 Class 250T.

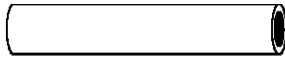
MATERIAL CHARACTERISTICS

Continuous temperature	-65 to 250 C
Melting point	+327 C
Dielectric strength	24 kV/mm
Tensile strength	24-35 MPa
Elongation at break	250 to 450%
Volume resistivity	1 x 10 ¹⁶ ohm min
Surface resistivity	1 x 10 ¹⁷ ohm min
Insulation resistance	1 x 10 ¹¹ ohm min
Flammability	non flammable
RoHS compliant	yes

Part no.	Nom. supplied dia. mm	Nominal wall mm	Nominal mtr Reel/coil qty	Part no.	Nom. supplied dia. mm	Nominal wall mm	Nominal mtr Reel/coil qty
HW 30	0.33	0.30	115	HW 12	2.16	0.41	100
HW 28	0.41	0.33	120	HW 11	2.44	0.41	100
HW 26	0.51	0.33	100	HW 10	2.72	0.41	150
HW 24	0.58	0.33	100	HW 9	3.02	0.51	60
HW 22	0.71	0.36	330	HW 8	3.43	0.51	50
HW 20	0.89	0.38	200	HW 7	3.84	0.51	90
HW 19	1.02	0.41	190	HW 6	4.29	0.51	45
HW 18	1.14	0.41	150	HW 5	4.83	0.51	40
HW 17	1.27	0.41	150	HW 4	5.44	0.51	30
HW 16	1.42	0.41	150	HW3	6.07	0.51	30
HW 15	1.57	0.41	140	HW2	6.81	0.51	30
HW 14	1.73	0.41	130	HW1	7.62	0.51	25
HW 13	1.93	0.41	110	HW0	8.53	0.51	20

Size	Minimum qty	Size	Minimum quantity	Size	Minimum quantity
HW30	575 mtrs	HW28	600 mtrs	HW24-26	500 mtrs
HW22	660 mtrs	HW20	600 mtrs	HW19	570 mtrs
HW16-18	450 mtrs	HW15	420 mtrs	HW14	390 mtrs
HW13	330 mtrs	HW11-12	300 mtrs	HW10	300 mtrs
HW9	180 mtrs	HW8	150 mtrs	HW7	180 mtrs
HW6	135 mtrs	HW5	120 mtrs	HW3-4	90 mtrs
HW2	90 mtrs	HW1	75 mtrs	HW0	60 mtrs

Minimum quantities will not apply if material is in stock
 Standard colour – natural, other colours available



P. T. F. E. METRIC SIZED SLEEVING

Polytetrafluoroethylene sleeving is used principally where a high operating temperature is required. PTFE benefits from a very low coefficient of friction and a high dielectric strength, excellent chemical resistance to most acids, alkalis and petroleum products. To BS2848 Type 6 Class 250T.

MATERIAL CHARACTERISTICS

Continuous temperature	-65 to 250 C
Melting point	+327 C
Dielectric strength	24 kV/mm
Tensile strength	24-35 MPa
Elongation at break	250 to 450%
Volume resistivity	1 x 10 ¹⁶ ohm min
Surface resistivity	1 x 10 ¹⁷ ohm min
Insulation resistance	1 x 10 ¹¹ ohm min
Flammability	non flammable
RoHS compliant	yes

Part no.	Nom. inside dia. mm	Nom. wall dia. mm	Nominal mtr coil qty	Part no.	Nom. supplied dia. mm	Nominal wall mm	Nominal mtr coil qty
1 x 2	1.0	0.5	100	7 x 10	7.0	1.5	25
1 x 3	1.0	1.0	50	8 x 9	8.0	0.5	20
2 x 3	2.0	0.5	50, 60 or 110	8 x 10	8.0	1.0	30
2 x 4	2.0	1.0	60	8 x 11	8.0	1.5	20
2 x 5	2.0	1.5	25	9 x 10	9.0	0.5	15
3 x 4	3.0	0.5	60	9 x 11	9.0	1.0	30
3 x 5	3.0	1.0	50	9 x 12	9.0	1.5	20
3 x 6	3.0	1.5	25	10 x 11	10.0	0.5	25
4 x 5	4.0	0.5	50	10 x 12	10.0	1.0	25
4 x 6	4.0	1.0	30 or 50	10 x 13	10.0	1.5	20
4 x 7	4.0	1.5	20	11 x 13	11.0	1.0	25
5 x 6	5.0	0.5	60	11 x 14	11.0	1.5	15
5 x 7	5.0	1.0	25	12 x 14	12.0	1.0	20
5 x 8	5.0	1.5	35	12 x 15	12.0	1.5	10
6 x 7	6.0	0.5	30	13 x 15	13.0	1.0	20
6 x 8	6.0	1.0	30	13 x 16	13.0	1.5	10
6 x 9	6.0	1.5	25	14 x 16	14.0	1.0	20
7 x 8	7.0	0.5	20	14 x 17	14.0	1.5	10
7 x 9	7.0	1.0	40	15 x 17	15.0	1.0	10

Please contact the sales office for the minimum quantities
 Larger sizes may be supplied in random lengths. Standard colour – natural

PAXOLIN SHEETS (SRBP)

Paxolin (SRBP) is a phenolic paper laminate offering good mechanical and electrical properties in low voltage applications. The material offers excellent machining characteristics and punching quality up to 2.5mm

MATERIAL CHARACTERISTICS

Density	approx. 1.4g.cm ³
Flexural strength	150 MPa
Flexural modulus of elasticity	approx. 9000 MPa
Tensile strength	120 MPa
Electrical strength at 90C in oil perpendicular to laminations (3mm thick)	5 kV/mm
Breakdown voltage at 90C in oil parallel to laminations	300 MPa
Permittivity at 50Hz and 1Hz	< 5.5
Comparative tracking index	CTI 100
Thermal endurance	120 T.I
Water absorption (thickness 3mm)	250 Mg
Impact strength a _n 10 & a _n 15	20 KJ/m ²
RoHS Compliant	yes

Part no.	Sheet size	Thickness
E50030	4 x 4 feet	3mm (1/8")
E50060	4 x 4 feet	6mm (1/4")
E50090	4 x 4 feet	9mm (3/8")

ELECTRICAL SWITCHGEAR MATTING

Electrical Switchgear matting is electrically tested and is available in two thickness's and in a fluted form. Suitable for insulation purposes this matting is sold in 11.5m rolls or by the linear metre.

MATERIAL CHARACTERISTICS

Operating voltage	6mm thickness 11Kv, working 450V 9.5mm thickness 15Kv, working 650V
Grade	No 8
Hardness shore A	65
Specific gravity	1.5
Tensile strength	8 MPa
Elongation at break	300%
Abrasion resistance	200mm ³
Compression set	35
Tear resistance	20 kg/cm
RoHS compliant	yes

Part no.	Supplied thickness mm	Width mm	Roll size m
G70609	6.0	915	11.5
G70909	9.5	915	11.5



MOTOR/TRANSFORMER INSULATIONS

We manufacture , on our own machines, washers and gaskets from various materials. For motor insulation's we crease and form to customers own specifications and designs in a wide range of flexible materials. The manufacture of pre-formed slot enclosures is also carried out in-house.

Our material range for this class of product include the following:-

Polyester Class B 130C, 0.25/0.35mm thick
 NOMEX* Class H 180C 0.38/0.51mm thick

Presspahn

Composite materials include:-

NMN-F2D 2 layers of NOMEX* 410 0.05mm thick and one inner layer of polyester film
 NMN-F3D 2 layers of NOMEX* 410 0.08mm thick and one inner layer of polyester film
 NMN-411 2 layers of uncalendered NOMEX* 411 0.13mm thick and one layer of polyester film
 NM 1 layer of NOMEX* (either 410 or 411) and one layer of polyester film
 D.M.D a bonding of non woven polyester mat to each side of a polyester film

The polyester film can be supplied in various thicknesses and can be supplied in tape and roll form.

* Registered trademark of DU PONT DE NEMOURS

As each application is different we suggest you contact the company with your requirements and we will be pleased to submit a quotation.

	OTHER PRODUCTS AVAILABLE
P	Open Weave Braided Cable Jacket in Nylon 6.6 monofilament with flat open weave.
RG	Polyamide Braided Cable Jacket in Rilsan 11 with a tighter braid .
NG	Nylon 6.6 Braided Sleeving with a lighter braid than RG for higher temperatures
PVP	Polyurethane varnished polyester heat resisting sleeving rated 130C
PVG	Polyurethane varnished glass heat resisting sleeving rated 155C
	Profiles and extrusions in flexible/rigid PVC
	Non Adhesive Tapes in terylene, woven glass, cotton, vidacords, vidatapes
	Adhesives Tapes in paper, polyester, glass, nomex, kapton, acetate, ptfe
N	Nomex, Nomex/Polyester/Nomex, Nomex/Kapton/Nomex , plain and slit edge class H
	Creasing and forming, slot wedges and coil insulations produced to drawing.
	Sheets/Boards/Rigids, srbf, srbp, epoxy glass, pgm



POLYESTER HIGH EXPANSION BRAIDED SLEEVING

Manufactured from heat stabilised Polyester monofilaments this sleeving has excellent abrasion resistance and the higher expansion ratio of 3:1 makes it ideal for installing on cables or piping already terminated. The small size range also reduces stockholding costs.

MATERIAL CHARACTERISTICS

Continuous temperature		-50 to 150 C
Intermittent temperature		220 C
Monofilament		0.22 mm
Filaments per weave	up to HXPB 30	3
	HXPB 40	4
	HXPB 50	5
Melting point		250 C
Limiting oxygen index		33 %
Flame resistance		meets UL94 - V2
Chemical resistance		unaffected by most chemicals
Fumes toxicity		passes halogen free
Fume opacity		passes
Flammability		passes passes Level 12
Mechanical properties		good
Chemical properties		good
RoHS compliant		yes

Part no.	Recommended range mm	Coil size m	Reel size m
HXPB 03	3 to 8	100	1000
HXPB 08	5 to 12	100	400
HXPB 12	8 to 21	100	300
HXPB 20	12 to 30	100	300
HXPB 30	18 to 55	50	200
HXPB 40	24 to 66	50	150
HXPB 50	30 to 82	50	150

All sizes available in ready cut lengths.

Colour - black only



POLYESTER BRAIDED SLEEVING HIGH COMMERCIAL QUALITY

This expandable sleeving is manufactured from monofilaments of polyester giving a very abrasion resistant covering for single or multi-core cables. Each size covers a wide range of cable bundles as it expands from its supplied size and then recovers.

MATERIAL CHARACTERISTICS

Continuous temperature	-50 to 150 C
Intermittent temperature	220 C
Monofilament	0.22 mm
Melting point	250 C
Limiting oxygen index	34 %
Flame resistance	meets UL94 - V2
Fumes toxicity	passes CEI 754-1 & 2
	halogen free
Fume opacity	passes
Flammability	passes
RoHS compliant	yes

Part no.	Recommended range mm	Coil size m	Reel size m
PB/PG 03	1 to 5	100	1000
PB/PG 04	2 to 7	100	1000
PB/PG 05	3 to 9	100	400
PB/PG 06	4 to 11	100	400
PB/PG 08	5 to 13	100	300
PB/PG 10	7 to 15	100	300
PB/PG 12	8 to 17	50	300
PB/PG 15	10 to 20	50	300
PB/PG 20	14 to 26	25	200
PB/PG 25	18 to 34	25	200
PB/PG 30	20 to 40	25	150
PB/PG 40	30 to 50	25	100
PB/PG 50	40 to 66	25	100

All sizes available in ready cut lengths.

Standard colours PB - black, PG - grey



SPIRAL BINDING

Spiral binding is manufactured from low density polythene or Nylon and offers a simple and fast method of binding and protecting cable looms whilst at the same time allowing breakouts. Spiral binding is available in normal polythene and with added flame retardant as well as natural Nylon.

MATERIAL CHARACTERISTICS

Continuous temperature	SB/SBF	-60 to 85 C
	SB-N	-55 to 125 C
Intermittent temperature	SB-N	170 C
Dielectric strength		30 kV/mm
Tensile strength	SB/SBF	12 MPa
	SB-N	55 MPa
Elongation at break	SB/SBF	850%
	SB-N	280%
Flammability	SB	not applicable
	SBF	flame retarded
	SB-N	HB
RoHS compliant		yes

Part no.	Supplied dia. Mm	Outside dia. mm	Pitch mm	Recommended range mm	Coil size m
Polythene					
SB 3	1.6	3.2	4.7	2 to 15	50
SB 6	4.0	6.0	9.5	5 to 30	25
SB 8	6.5	8.0	12.0	7.0 to 40	25
SB 10	8.7	10.7	12.7	12 to 50	25
SB 12	10.0	12.0	12.7	15 to 80	25
Polythene	Flame retarded				
SBF 3	1.6	3.2	4.7	2 to 15	50
SBF 6	4.0	6.0	9.5	5 to 30	25
SBF 10	8.7	10.7	12.7	12 to 50	25
Nylon					
SB-N 6	4.1	6.3	9.5	5 to 30	25
SB-N 10	8.7	10.7	12.7	12 to 50	25

Please note that the recommended range is subject to customer trials.
 All sizes available in cut lengths.

Standard colours -SB natural and black, SBF white
 SB-N natural

GROMMET STRIP

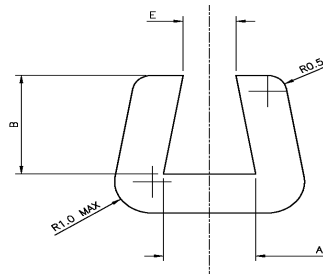
Grommet edge protection strip is supplied in continuous length for cutting to size to fit any shape and size of aperture or exposed edge. It is a close fitting profile that fits without the need for adhesive and provides effective edge protection against chafing of cables routed through sharp edged cut out and holes.

The standard grommet is manufactured from halogen free polyethylene, LDPE.

Available to special order: Flame retardant grade Colours PVC Nylon EVA

MATERIAL CHARACTERISTICS

Continuous temperature	-30 to 80 C
Tensile strength	27 MPa
Elongation at break	450%
Flammability	not applicable
RoHS compliant	yes



Part No.	Plate thickness	Min. radius	E	Coil Qty
GS2	0.5 – 1.5	4	0.5 – 0.7	25
GS3	1.5 – 2.5	5	1.2 – 1.4	25
GS4	2.5 – 3.8	6	2.1 – 2.3	25
GS5	4.0 – 4.9	8	3.5 – 3.8	25
GS6	4.5 – 6.5	9	4.0 – 4.3	25

PANEL EDGE BEADING

Manufactured from self-extinguishing flexible PVC this beading is designed to cover panel edging to minimise the risk of cuts and to ensure wire bundles do not chafe through bulkheads.

MATERIAL CHARACTERISTICS

Continuous temperature	-20 to 70 C
Tensile strength	15 MPa
Elongation at break	220%
Flammability	self-extinguishing
RoHS compliant	yes



Part No.	Height, mm	Width, mm	Top opening,mm	Coil qty	To fit panel
EB 1	9.5	4.95	1.1	25	1.0
EB 2	6.3	5.0	1.0	75	2.0



2:1 P.V.C. HEATSHRINK SLEEVING

HST is specially formulated to give maximum quality whilst retaining low cost. Rated at 105 C, heat stabilized, it has good flame retardancy and meets the general requirements of UL224. Ideal as an insulating tubing for a wide variety of applications and for cable identification, strain relief of terminals and busbar insulation.

MATERIAL CHARACTERISTICS

Continuous temperature	-30 to 105 C
black & colours	-30 to 70 C
clear	135 C
Shrink temperature	135 C
Shrink ratio	2 : 1
Dielectric strength	15 kV/mm
Tensile strength	19 MPa
Elongation at break	220 %
Longitudinal change	10 % max
Low temperature flex	-10 C
Heat shock 4h no cracking	250 C
Flammability	Self extinguishing
Recommended storage	Below 25 C away from sunlight
RoHS Compliant	Large sizes may be subject to some reversion yes

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Reel size m
HST 12	1.2	0.6	0.40	250
HST 16	1.6	0.8	0.40	250
HST 24	2.4	1.2	0.40	250
HST 32	3.2	1.6	0.45	250
HST 48	4.8	2.4	0.50	250
HST 64	6.4	3.2	0.60	250
HST 95	9.5	4.8	0.60	125
HST 127	12.7	6.4	0.65	100
HST 160	16.0	8.0	0.80	100
HST 190	19.0	9.5	0.80	100
HST 254	25.4	12.7	1.00	100
HST 320	32.0	16.0	1.00	50
HST 381	38.1	19.0	1.00	50
HST 510	50.8	25.5	1.00	25
HST 762	76.0	38.1	1.00	25
HST 1016	102.0	51.0	1.30	25 coils

Standard colours -Black

Green/yellow in HST32 – 381 Other colours, sizes and cut pieces available to order.



GLOSSY POLYOLEFIN HEATSHRINK

NPO is a low cost, flexible, irradiated cross linked polyolefin sleeving with a continuous operating temperature of 125C. Suitable for a variety of applications where flame retarded tubings are not required and cost is an important factor.

MATERIAL CHARACTERISTICS

Continuous temperature	-55 to 125 C
Shrink temperature	120 C
Shrink ratio	2 : 1
Dielectric strength	25 kV/mm
Tensile strength	15 MPa
Elongation at break	400 %
Longitudinal change	10 % max
Low temperature flex	-55 C
Heat shock 4h no cracking	250 C
Flammability	not applicable
RoHS compliant	yes

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Reel size m
NPO 16	1.6	0.8	0.43	250
NPO 24	2.4	1.2	0.51	250
NPO 32	3.2	1.6	0.51	250
NPO 48	4.8	2.4	0.51	250
NPO 64	6.4	3.2	0.64	250
NPO 95	9.5	4.8	0.64	125
NPO 127	12.7	6.4	0.64	100
NPO 190	19.0	9.5	0.76	100
NPO 254	25.4	12.7	0.89	100

All sizes available in cut lengths.

Standard colour -black

Other colours available to order



POLYOLEFIN HEATSHRINK SLEEVING

BPO is a low cost, flame retarded irradiated polyolefin sleeving approved for many industrial and commercial applications such as mechanical protection, colour coding, busbar insulation and harnessing. It offers good physical, chemical and electrical properties. Available in 2:1 and 3:1.

MATERIAL CHARACTERISTICS

Continuous temperature	-40 to 135 C
Shrink temperature	120 C
Shrink ratio	2 : 1
Dielectric strength	30 kV/mm
Tensile strength	14 MPa
Elongation at break	400 %
Longitudinal change	5% max
Low temperature flex	-55 C
Heat shock 4h no cracking	250 C
Flammability	Flame retarded (not clear)
RoHS compliant	yes

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Reel size m
BPO 12	1.2	0.6	0.45	300
BPO 16	1.6	0.8	0.45	300
BPO 24	2.4	1.2	0.50	150
BPO 32	3.2	1.6	0.50	150
BPO 48	4.8	2.4	0.50	150
BPO 64	6.4	3.2	0.65	75
BPO 95	9.5	4.8	0.65	75
BPO 127	12.7	6.4	0.65	75
BPO 190	19.0	9.5	0.75	75
BPO 254	25.4	12.7	0.90	30
BPO 381	38.1	19.0	1.15	30
BPO 508	50.8	25.4	1.15	30
BPO 762	76.2	38.1	1.40	30
BPO 1016	101.6	50.8	1.40	30
BPO 1260	126.0	63.5	1.50	15
BPO 1520	152.0	75.0	1.52	15

BPO 24 to 381 Black available in 30 mtr coils, cut lengths and mini boxes
 Colours - black, green/yellow in BPO 24 – 381, other colours, sizes and cut pieces available to order.



HIGH GRADE POLYOLEFIN HEATSHRINK

EPO is a high specification, flame retarded, irradiated polyolefin sleeving offering excellent electrical, chemical and physical properties. Available in a wide variety of sizes and colours it is approved to MIL and UL specifications. It is a first choice for industrial and military applications.

MATERIAL CHARACTERISTICS

Continuous temperature		-55 to 135 C
Shrink temperature		120 C
Shrink ratio		2 : 1
Dielectric strength	to EPO 254	20 kV/mm
	above EPO 254	10kV/mm
Tensile strength		14 MPa
Elongation at break		400 %
Longitudinal change		5 % max
Heat ageing		168 h @ 175C
Corrosion resistance		Non corrosive
Flammability		Passes UL224 VW1
Fluid resistance		Passes
Specifications		UL224 & CSA (not clear) MIL-I-23053/5 Class 1 & 2 Def Stan 59-57 Type 2B, BS3G 198 Part 3 11B
RoHS compliant		yes

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Reel size m
EPO 12	1.2	0.6	0.45	300
EPO 16	1.6	0.8	0.45	300
EPO 24	2.4	1.2	0.50	150
EPO 32	3.2	1.6	0.50	150
EPO 48	4.8	2.4	0.50	150
EPO 64	6.4	3.2	0.65	75
EPO 95	9.5	4.8	0.65	75
EPO 127	12.7	6.4	0.65	75
EPO 190	19.0	9.5	0.75	75
EPO 254	25.4	12.7	0.90	30
EPO 381	38.1	19.0	1.15	30
EPO 508	50.8	25.4	1.20	30
EPO 762	76.2	38.1	1.25	15
EPO 1016	101.6	50.8	1.40	15

All sizes available in cut lengths.

Standard colours - black, clear, white, red, yellow, blue, green, grey, violet, brown

Green/yellow in sizes 2.4 to 38.1.



POLYOLEFIN 3:1 HEATSHRINK SLEEVING

BPO is a low cost, flame retarded irradiated polyolefin sleeving approved for many industrial and commercial applications that offers good physical, chemical and electrical properties. Please see BPO catalogue page for the full technical specification

EPO is a high specification, flame retarded, irradiated polyolefin sleeving offering excellent electrical, chemical and physical properties. Available in a wide variety of sizes and colours it is approved to MIL and UL specifications. It is a first choice for industrial and military applications. Please see EPO catalogue page for the full specification

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Reel size m
BPO 3/1	3.0	1.0	0.55	150
BPO 6/2	6.0	2.0	0.65	75
BPO 9/3	9.0	3.0	0.75	75
BPO 12/4	12.0	4.0	0.75	75
BPO18/6	18.0	6.0	0.85	75

Standard colour - black, Other colours and cut pieces available to order.

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Reel size m
EPO 1.5/0.5	1.5	0.5	0.45	300
EPO 3/1	3.0	1.0	0.55	150
EPO 6/2	6.0	2.0	0.60	75
EPO 9/3	9.0	3.0	0.75	75
EPO 12/4	12.0	4.0	0.75	75
EPO 18/6	18.0	6.0	0.85	75
EPO 24/8	24.0	8.0	1.00	30
EPO 39/13	39.0	13.0	1.15	30

Standard colour –black and clear

EPO other colours and cut pieces available to order.



LOW SHRINK TEMP. HEATSHRINK

LPO is a very flexible 3:1 or 2:1 thin wall irradiated polyolefin sleeving that can be shrunk at low temperature. It is particularly useful where no heat gun is available as it can be shrunk in hot water. LPO can be compounded in special colours making it widely used in the fishing industry where special tints may be required.

MATERIAL CHARACTERISTICS

Continuous temperature	-55 to 120 C
Shrink temperature	90 C
Shrink ratio	3 : 1 and 2:1
Dielectric strength	20 kV/mm
Tensile strength	20 MPa
Elongation at break	600 %
Longitudinal change	+5/-10 % max
Flammability	not applicable
RoHS compliant	yes

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Reel size m
LPO 1.5/0.5	1.5	0.5	0.45	300
LPO 1.8/0.6	1.8	0.6	0.45	300
LPO 2.4/0.8	2.4	0.8	0.45	300
LPO 3/1	3.0	1.0	0.55	150
LPO 4.5/1.5	4.5	1.5	0.55	150
LPO 12	1.2	0.6	0.45	300
LPO16	1.6	0.8	0.45	300
LPO24	2.4	1.2	0.45	300
LPO32	3.2	1.6	0.55	150
LPO48	4.8	2.4	0.55	150

Standard colour - clear

Other colours and cut pieces available to order.



KYNAR HEATSHRINK SLEEVING

KY heat shrinkable polyvinylidene fluoride sleeving is a thin wall material that has an appreciably higher working temperature than the polyolefin materials. It has high tensile strength and good resistance to chemicals and solvents. Its uses include strain relief, abrasion resistance and acting as a tough protector.

MATERIAL CHARACTERISTICS

Continuous temperature	-55 to 175
Shrink temperature	170 C
Shrink ratio	2 : 1
Electrical strength	32 KV/mm minimum
Tensile strength	35 N/mm ² minimum
Ultimate Elongation	150% minimum
Heat ageing Tensile strength	15 MPa minimum
Ultimate elongation	75% minimum
Heat shock 4h at 300C	No dripping, cracking or flowing
Flammability	Flame retarded
Corrosion (Cooper Mirror)	No corrosion
Water Absorption	0.5% maximum
Specifications	UL224 VW1/CSA, Def Stan 59/97 Type 3 AMS-DTL-23053/8, VG 95343 Part 5 Type F
RoHS compliant	yes

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Standard pack
KY 12	1.2	0.6	0.25	50 x 1.2m lengths
KY 16	1.6	0.8	0.25	50 x 1.2m lengths
KY 24	2.4	1.2	0.25	50 x 1.2m lengths
KY 32	3.2	1.6	0.25	50 x 1.2m lengths
KY 48	4.8	2.4	0.25	50 x 1.2m lengths
KY 64	6.4	3.2	0.30	25 x 1.2m lengths
KY 95	9.5	4.8	0.30	20 x 1.2m lengths
KY 127	12.7	6.4	0.30	20 x 1.2m lengths
KY 190	19.0	9.5	0.43	15 x 1.2m lengths
KY 254	25.4	12.7	0.48	10 x 1.2m lengths

Supplied only in 1.2m lengths. All sizes available in cut lengths.

Colour - clear only



LSF POLYOLEFIN HEATSHRINK SLEEVING

SPF/ZH is a flexible thin wall polyolefin sleeving with excellent low smoke emission and low evolution of acid gases. Allied to good flame retardancy this is an ideal heat shrinkable material for use in safety critical areas where fire is a hazard.

MATERIAL CHARACTERISTICS

Continuous temperature	-40 to 135 C
Shrink temperature	100 C
Shrink ratio	2 : 1
Dielectric strength	25 kV/mm
Tensile strength	10 MPa
Elongation at break	300 %
Longitudinal change	5% max
Low temperature flex	-55 C
RoHS compliant	yes

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Reel size M
SPF/ZH 12	1.2	0.6	0.40	150
SPF/ZH 16	1.6	0.8	0.43	150
SPF/ZH 24	2.4	1.2	0.51	150
SPF/ZH 32	3.2	1.6	0.51	150
SPF/ZH 48	4.8	2.4	0.51	150
SPF/ZH 64	6.4	3.2	0.64	75
SPF/ZH 95	9.5	4.8	0.64	75
SPF/ZH 127	12.7	6.4	0.64	75
SPF/ZH 190	19.0	9.5	0.76	60
SPF/ZH 254	25.4	12.7	0.89	60

All sizes available in cut lengths.

Standard colour - black



DUAL WALL HEATSHRINK SLEEVING

DWA is a semi flexible 3:1 irradiated polyolefin sleeving with an inner liner that melts and flows when the outer jacket is shrunk. This enables the sealing and encapsulation of components, wires, breakouts etc. and is very suitable for covering irregular shapes and components.

MATERIAL CHARACTERISTICS

Continuous temperature	-30 to 80 C
Shrink temperature	120 C
Shrink ratio	3 : 1
Dielectric strength	12 kV/mm
Tensile strength	9 MPa
Elongation at break	200 %
Longitudinal change	15 % max
Heat ageing	168 h @ 150C
Heat shock 4h no cracking, jacket only	225 C
Fluid resistance	24 h @ 23C
Flammability	Not applicable
Adhesive	5.73 grams/mtr
Specification	UL224
RoHS compliant	yes

Part no.	Min. supplied dia. mm	Recovered dia. mm	Recovered wall mm(nom)	Standard length
DWA 3/1	3.0	1.0	1.00	1.2m
DWA 6/2	6.0	2.0	1.00	1.2m
DWA 9/3	9.0	3.0	1.40	1.2m
DWA 12/4	12.0	4.0	1.75	1.2m
DWA 18/6	18.0	6.0	2.25	1.2m
DWA 24/8	24.0	8.0	2.50	1.2m
DWA 39/13	39.0	13.0	2.50	1.2m

All sizes available in cut lengths.

Standard colours - black, clear in some sizes