

Helawrap HWPP / HWPV-V0

Features and Benefits

Helawrap is the ideal solution for bundling and protecting cables and wires in industrial as well as in home or office environments. Thanks to its special profile and handy applicator tool, Helawrap can be applied rapidly and effortlessly.

The unique design allows the user to branch off cable at any point along the cover with ease. Helawrap can also be removed and re-applied as often as required.

Helawrap is available in several colours, a large range of sizes covering most standard applications and in two durable materials.

Application

Helawrap is used to bundle and protect cable and wires in the electrical industry, panel building as well as machine, automotive and truck manufacturing. Helawrap in 25 metre lengths is the time-saving solution for industrial applications.

Due to its excellent flame-retardant properties, Helawrap Polyamide 6 VO is the product of choice wherever fire protection is essential, for example in mass transit.

Helawrap in practical 2 metre lengths is designed for domestic and office use. It puts an end to the cable chaos associated with PCs, TVs and Hi-Fi systems.



Choice of colours for various home and office environments.



Insert one or more cables into the insertion slot of the applicator tool.



Place the applicator tool in one end of the Helawrap cable cover.



Simply slide the applicator tool through the Helawrap cover.



Applicator tools HAT are available for every Helawrap cover size.

Technical Table

Code	Colour	Bundle Ø max.	Wall (WT)	Application Tool
HWPP 2 m lengths				
H16B	Black (BK)	15.0	0.85	HAT16
H16S	Silver (SR)	15.0	0.85	HAT16
H20B	Black (BK)	20.0	0.95	HAT20
H20S	Silver (SR)	20.0	0.95	HAT20
H25B	Black (BK)	25.0	1.05	HAT25
H25S	Silver (SR)	25.0	1.05	HAT25
HWPP 5 m lengths				
H16B5M	Black (BK)	15.0	0.85	HAT16
H16S5M	Silver (SR)	15.0	0.85	HAT16
H20B5M	Black (BK)	20.0	0.95	HAT20
H20S5M	Silver (SR)	20.0	0.95	HAT20
H25B5M	Black (BK)	25.0	1.05	HAT25
H25S5M	Silver (SR)	25.0	1.05	HAT25

All dimensions in mm. Subject to technical changes

Available in South Africa. 2m lengths complete with applicator

Applicator tools available separately

Spiral Binding - NFP

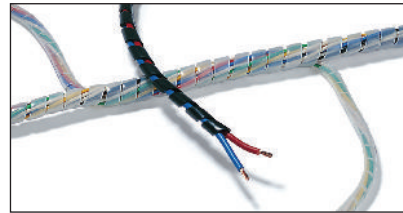
Features and Benefits

Spiral Binding is a general purpose solution for many bundling applications. It is used for organising and protecting cables and hoses. Spiral binding is available in a wide range of diameters, colours and materials. Flame retardant polyethylene (FRP), PA 6 (N), PTFE (P) versions provide protection against fire, abrasion, chemical attack and elevated temperature - please refer to material data tables.

Due to the spiral structure, it can be applied to cables or hoses in its original place. Furthermore, cables can branch out at any point and in any direction.

Application

Spiral binding is used to route and bind cables that need high mechanical protection, for instance in the automobile industry as well as in control panels and cabinets. It is also used in electrical installation, where safety is a primary consideration. Spiral binding provides a tidy solution for many applications.



Spiral binding.

Material Data NFP

RoHS	Material	Polyethylene (PE)
	Operating Temperature	-40°C to +90°C Continuous, (+120°C for 200 h)
	Flammability	Halogen free
	HF (halogenfree)	

Technical Table

Code	Ø D	Wall (WT)	Pitch (P)	Material	Colour	Pack Cont. (m)
NFP-PE						
*1NFP	1.6	0.8	6.0	PE	Black (BK)	30
*1NFP	1.6	0.8	6.0	PE	Natural (NT)	30
*2NFP	4.1	1.0	9.5	PE	Black (BK)	30
*2NFP	4.1	1.0	9.5	PE	Natural (NT)	30
*3NFP	9.6	1.2	13.5	PE	Black (BK)	30
*3NFP	9.6	1.2	13.5	PE	Natural (NT)	30

All dimensions in mm. Subject to technical changes

* Available in South Africa

Also available in thin wall on request

Helagaine HEGPA66 Braided Sleeving

Features and Benefits

The thread diameter of the Polyamide 6.6 is approximately 10% larger than that of Polyester. This results in tougher sleeving with excellent resistance to abrasion. Despite its toughness, Helagaine HEGPA 66 can be easily applied even over very irregular shapes.

Application

Helagaine HEGPA 66 is particularly suitable for vehicle manufacturing as well as plant construction.

Application Method

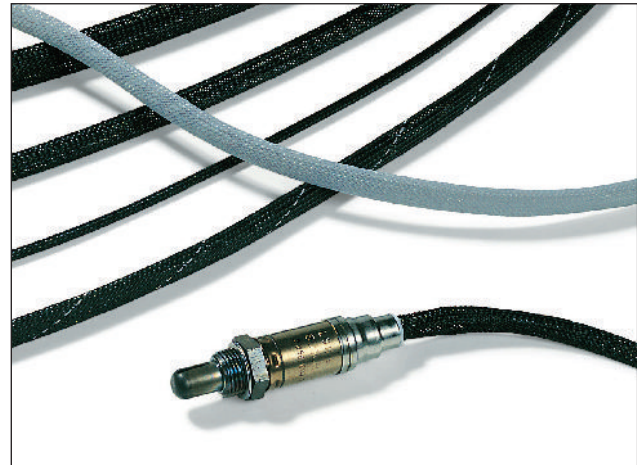
Fraying of the braided sleeving can be avoided by using a hot-knife to cut the sleeving. Braided sleeving can also be supplied in pre-cut lengths on request.

Technical Table

Code	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length
MEGA503	2	4	Black (BK)	200 m
MEGA504	3	6	Black (BK)	200 m
MEGA505	3	7	Black (BK)	200 m
MEGA506	4	8	Black (BK)	100 m
MEGA508	5	10	Black (BK)	100 m
MEGA510	7	12	Black (BK)	100 m
MEGA512	8	14	Black (BK)	100 m
MEGA516	12	18	Black (BK)	50 m
MEGA520	15	23	Black (BK)	50 m
MEGA525	18	28	Black (BK)	50 m
MEGA530	25	32	Black (BK)	50 m
MEGA540	30	44	Black (BK)	50 m
MEGA550	40	55	Black (BK)	50 m
MEGA560	50	65	Black (BK)	50 m

All dimensions in mm. Subject to technical changes

Grey available on request



Various types of Helagaine braided sleeving.

Material Data

RoHS	Material	Polyamide 6.6 (PA66)
	Operating Temperature	-60°C to +150°C, Intermittent +200°C
	Melting Point (Metric)	+255°C
	Braid Density	ca. 85%
	Flammability	UL94 V2



The HSG0 hot cutting tool prevents the braided sleeving from fraying.

Polyester Expandable Sleeving

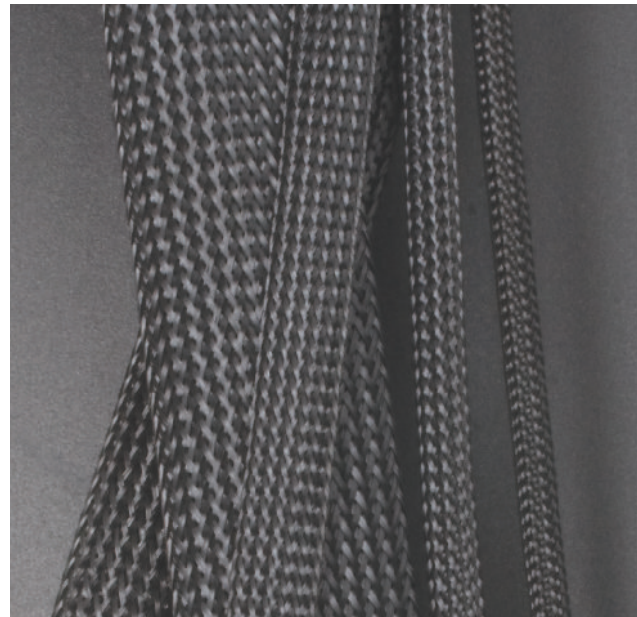
Features and Benefits

Polyester expandable sleeving is flame-retardant and HALOGEN-FREE. It offers durable abrasion resistance in a wide range of industrial applications. The open weave construction allows for ease of use when bundling cables and hoses, even those with large or bulky connectors.



Totally expanded, the sleeving can reach at least one and a half times its initial dimension

Application

The polyester expandable sleeving is used where mechanical protection is required, such as cables, wire harnesses, tubes and industrial hoses.



Material Data

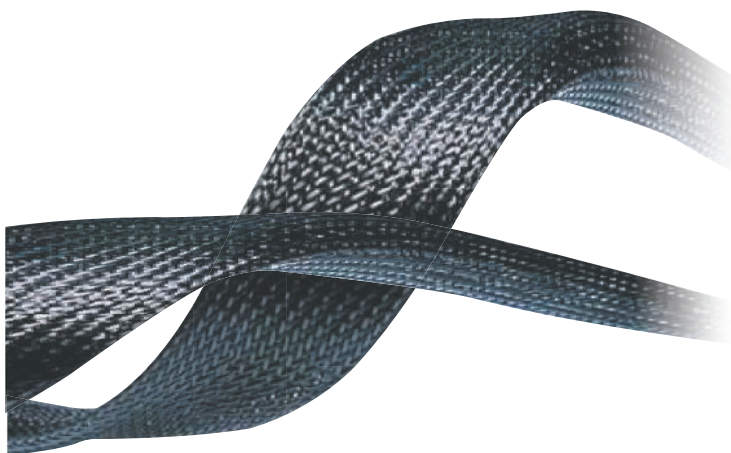
	Material	Polyamide 6.6 (PA66)	
	Operating	-50°C to +150°C,	
	Standard Colour	Black	
	Melting Point (Metric)	250°C ± 5°C	
	Certification	UL, CSA, RoHS, PFOS, REACH	
	Flammability	VW-1	

Technical Table

Code	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length
PET3BK	1	6	Black (BK)	200 m
PET6BK	3	9	Black (BK)	200 m
PET8BK	5	16	Black (BK)	200 m
PET10BK	7	19	Black (BK)	100 m
PET12BK	8	24	Black (BK)	100 m
PET16BK	10	27	Black (BK)	100 m
PET20BK	14	30	Black (BK)	50 m
PET25BK	18	35	Black (BK)	50 m
PET30BK	20	50	Black (BK)	50 m
PET40BK	30	60	Black (BK)	50 m
PET45BK	35	75	Black (BK)	50 m
PET50BK	40	80	Black (BK)	50 m
PET64BK	45	105	Black (BK)	50 m
PET76BK	64	120	Black (BK)	50 m

All dimensions in mm. Subject to technical changes.

Grey available on request



Notes:

1. Nominal Size indicates flat width.
2. The part no. will be followed with BK, GR etc, to indicate the colour of the sleeving.
3. Special packages, sizes and colours can be supplied upon request. Minimum order quantities will apply.
4. All numerical data is an average or typical value and does not include custom sizes.
5. *Available on request.

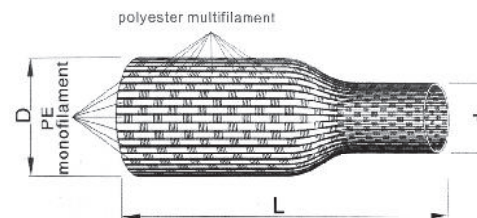
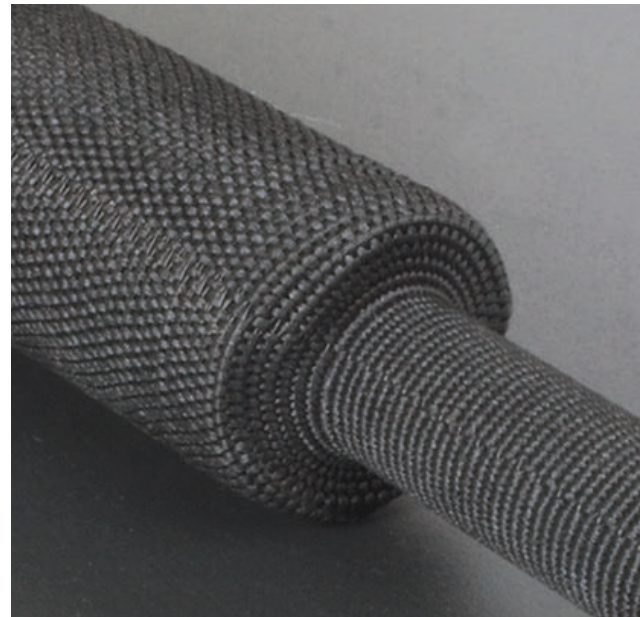
Heat Shrinkable Braided Sleeving

Features and Benefits

Heat shrinkable braided sleeving consists of polyester multifilament and special modified polyolefin filament, and shrinks when exposed to heat. The unique woven construction makes it extremely flexible and easy to wrap hoses with irregular shapes. This sleeving provides excellent abrasion resistance and noise reduction making it suitable to use in various environments.

Application

This sleeving is used to protect rubber hoses, plastic pipes and wire harnesses. Noise reduction and rattle suppression make this sleeving suitable for the automotive and other industrial fields.



Material Data

RoHS	Material	Polyolefin & Polyester
	Operating	-40°C to +125°C,
	Min Shrink Temp	80°C
	Full Recovery Temp	120°C
	Certification	RoHS
	Flammability	Self Extinguishing
	Shrink ratio	2:1



Technical Table

Code	As Supplied (D)	After Recovered (d)	Reel Length
HSB10	10.0	5.0	100 m
HSB12	12.0	6.0	100 m
HSB20	20.0	10.0	100 m
HSB25	25.0	12.5	100 m
HSB30	30.0	15.0	100 m
HSB34	34.0	17.0	100 m
HSB40	40.0	20.0	100 m
HSB50	50.0	25.0	100 m
HSB60	60.0	30.0	100 m

All dimensions in mm. Subject to technical changes.

Standard colour Black.

Grey available on request.

Notes:

1. Nominal Size indicates flat width.
2. Special packages, sizes and colours can be supplied upon request. Minimum order quantities will apply.
3. All numerical data is an average or typical value and does not include custom sizes.

HELAHOOK Re-Sealable Protective Sleeving

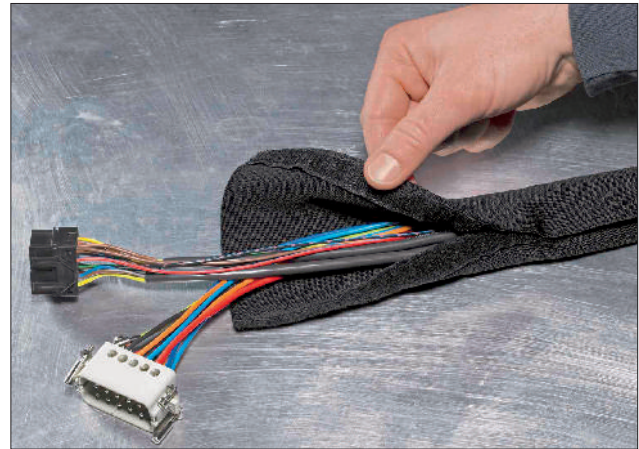
Features and Benefits

HELAHOOK is a lightweight, abrasion resistant and re-sealable protective sleeving. Due to its hook-and-loop sealing system, HELAHOOK can be used to protect cables and hoses that are already fixed. It adapts to very irregular shapes and sizes. It permits quick and easy access to enclosed components and can be used repeatedly. It is therefore a sensible alternative to braided sleeving and corrugated tubing for many common applications.

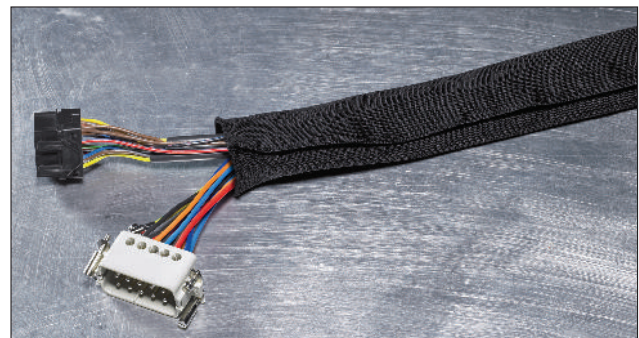
HELAHOOK has good fire-protection properties. It complies with the standard NF F 16-101, Class F1 for smoke emission and gas toxicity and meets UL94 V2.

Application

HELAHOOK is used in industrial machines, electrical appliances, shipbuilding, railway vehicles and in the aerospace industry. HELAHOOK is also employed in automobiles or commercial vehicles. It is the ideal solution for post-termination cable organisation and wherever repeated use is a necessity.



HELAHOOK protective sleeving allows for retrospective fitting and repeated use.



HELAHOOK provides excellent abrasion resistance.

Material Data

RoHS	Material	Polyester (PET)
	Colour	-Black (BK)
	Operating Temperature	-50°C to +150°C
	Flammability	UL94 V2, FMVSS 302



Technical Table

Code	Bundle Ø min.	Bundle Ø max.	Reel Length (m)
Helahook 10	3	15	25
Helahook 15	10	20	25
Helahook 20	15	30	25
Helahook 25	20	40	25
Helahook 30	25	50	25

All dimensions in mm. Subject to technical changes.
Cuts in any lengths are available on request.

PVC Tubing

Features and Benefits

A thin wall section makes P sleeving ideal for minimising the overall diameter of loom assemblies.

Application

These high-grade PVC sleeves (P) have a thin wall that makes them ideal for insulating wire in areas where space is at a premium. They can be supplied as continuous tubing or cut lengths. The tubing is available in international resistor colour code, pink and transparent.

Technical Table

Code	Supplied Ø D	Wall (WT) nom.
PVC1	1	1.0
PVC2	2	1.0
PVC3	3	1.0
PVC4	4	1.0
PVC5	5	1.0
PVC6	6	1.0
PVC8	8	1.0
PVC10	10	1.0
PVC12	12	1.0
PVC13	13	1.0
PVC14	14	1.0
PVC16	16	1.0
PVC18	18	1.0
PVC19	19	1.0
PVC20	20	1.0
PVC22	22	1.0
PVC23	23	1.0
PVC24	24	1.0
PVC25	25	1.0
PVC30	30	1.0
PVC35	35	1.0

All dimensions in mm. Subject to technical changes.

Std Pack Sizes: 1-20 mm ID = 100 m rolls, 22-35 mm ID = 50 m rolls

Min Order Qty: As per standard Pack of 500 mm, except black sizes 2, 4, 6, 8 and 10 mm.

Standard Colour - Black. Other colours on request.



Helvin P tubing.



Material Data

RoHS	Material	PVC (Polyvinylchloride)
	Operating Temperature	-65°C to +105°C, Intermittent +135°C
	Flammability	UL94 V0 at 1mm thickness, Self extinguishing
	Specification	UL224, BS 3858 Type 3, IEC 684-3-101 / 104, DEF STAN 59-15



Please Note for Product Specification Approvals please refer to Appendix.

Convolutated Tubing

Medium Duty (High Impact)

The tubing is manufactured from high impact, flexible, UV stable PVC material affording a durable, crush resistant product meeting the requirements of the relevant sections of SABS IEC 60614-1:1994 and IEC 60614-2-3:1990 – Pliable conduits for electrical installations.

The tubing is supplied in light grey as standard. The flexibility, impact resistance and UV stability of the material allows for a wide range of conduiting applications and also meets the construction industry requirements for conduits in concrete slabs, columns, beams and decks. Operating temperature range is -5°C to 60°C.

Compression force 740N.

The PVC tubing carries the Authorisations Committee approval number 0211064.

Light Duty (Medium Impact)

The tubing is manufactured from medium impact, flexible, UV stable PVC material affording a durable product meeting the requirements of the relevant sections of SABS IEC 60614-1:1994 – pliable conduits for electrical installations.

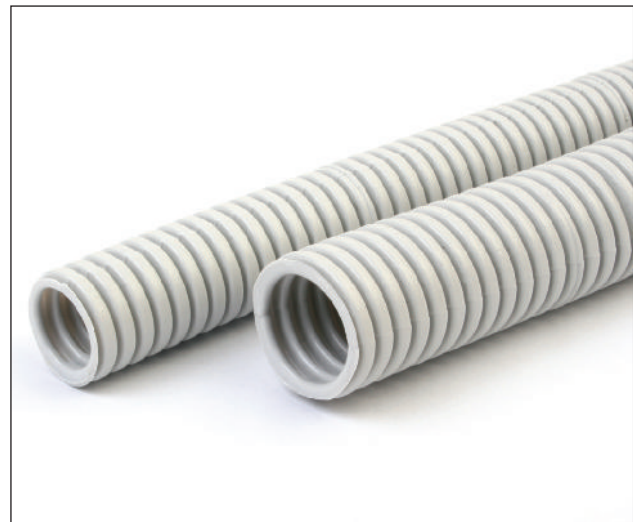
The tubing is supplied in white as standard. The flexibility and UV stability of the material allows for a wide range of conduiting applications.

Operating temperature range is -5°C to 60°C.

Compression force 320N.

The PVC tubing dimensions are compatible with the standard range of commercially available PVC conduit fittings.

PVC tubing is supplied in 50 m coils



Technical Table

Code	Nominal Size mm	
	I.D	O.D
V20HT3905	15.5	20
V25HT3905	20.5	25

All dimensions in mm. Subject to technical changes



Technical Table

Code	Nominal Size mm	
	I.D	O.D
V20HT260	16	20
V25HT260	21	25

All dimensions in mm. Subject to technical changes

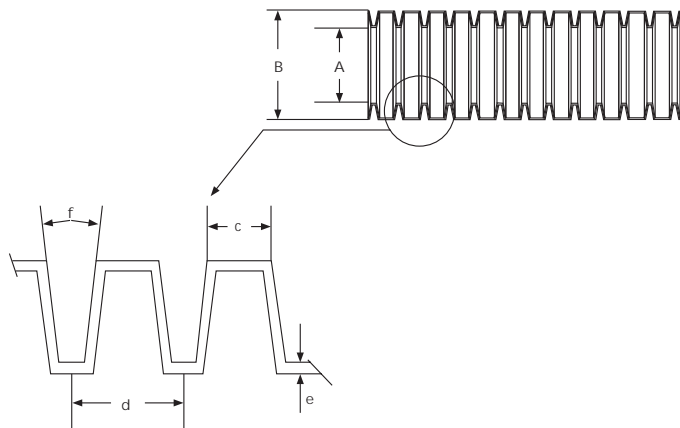
Convolved Tubing

Automotive

The tubing is manufactured from a grade of Polypropelene that contains no heavy metals (lead) and is halogen free. This ensures a high quality, very flexible, environmentally acceptable product that meets the stringent requirements of sheathing for automotive wiring harnesses.

The tubing is available in slit or un-slit form. Standard colour - black, but is available on request in mid-grey, white and orange. Operating temperature range is -40°C to 150°C continuously rated.

The Polypropelene tubing has been tested and complies with various motor manufacturers specifications including Mazda, Fiat and Volkswagen. Copies of test certificates are available on request.



CT ** \$ \$ \$ *

PACK QTY (IF BLANK THEN QTY = 100m, 1 = 10m, 2 = 25 m & 5 = 50m)
 SLIT OR UNSLIT (S = SLIT BLANK = UNSLIT)
 NW /HW = WAVE HEIGHT
 SIZE (OD)
 MATERIAL
 PRODUCT

MATERIAL KEY: Polypropylene (P), Polyamide (A), PVC (V).
 Available in Flame Retardant and Heat Resistant. Standard Colour - Black or Grey, others on request.

Technical Table

Code	Nominal Size I.D. x O.D.	Dimensions (mm)					Angle	
		Tolerance - A	B	C	D	E	F	
\$=S for slit	(mm)	±0.4	±0.3	±0.1	±0.15	±0.1	±5°	
CTP7NW\$	7 x 10	6.9	9.6	1.8	2.6	0.15	11°	
CTP10NW\$	10 x 13	10.1	12.7	1.8	2.7	0.2	20°	
CTP13NW\$	13 x 16	12.9	15.8	1.8	2.7	0.2	11°	
CTP17NW\$	17 x 21	16.8	21.0	2.2	3.2	0.2	11°	
CTP22NW\$	22 x 26	21.8	25.5	2.2	3.1	0.2	11°	
CTP5HW\$	5 x 7	5.0	7.1	1.2	2.2	0.15	30°	
CTP9HW\$	9 x 13	8.5	12.9	2.1	3.14	0.2	18°	
CTP11HW\$	11 x 16	11.1	15.7	2.1	3.14	0.2	18°	
CTP15HW\$	15 x 21	15.0	21.2	2.7	3.9	0.2	12°	
CTP19HW\$	19 x 26	19.1	25.7	2.9	4.3	0.25	12°	



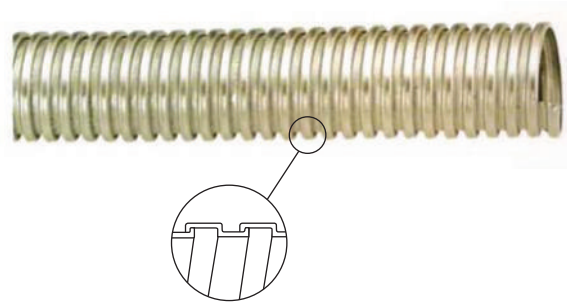
Flexible Metal Conduit

Construction

- Galvanized steel core, non liquid tight
- Square lock style

Application

- Used with a variety of set-screws
- Offers good mechanical protection to wiring in a variety of applications



Technical Table

Code	Size	Inside Diameter		Outside Diameter (over Jacket)		Min Bend Radius	Length of Reel	Connector
		Min (mm)	Max (mm)	Min (mm)	Max (mm)			
ST16	16	15.8	16.3	19.2	19.7	38	30	Depending on Application SCM" \$" - Fixed FKCFM" \$" - Fixed FKCSM" \$" - Swivel
ST20	20	20.7	21.2	24.5	25.1	45	30	
ST25	25	26.0	26.6	30.4	31.0	55	30	
ST32	35	34.7	35.4	39.6	40.3	62	30	

" \$" = Size in mm



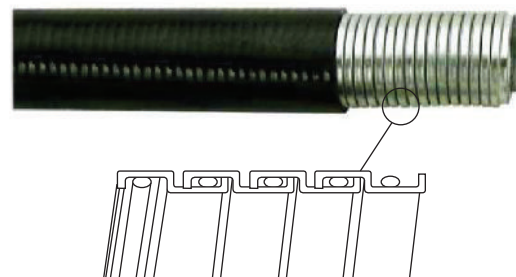
Liquid Tight Flexible Steel Conduit

Construction

- Galvanized steel core, corrosion resistant
- Liquid tight PVC jacket, flexible, flame retardant, impact resistant

Application

- Used with a variety of set-screws
- Offers good mechanical protection to wiring in a variety of applications
- Working temperature -10°C - 70°C



Technical Table

Code	Size	Inside Diameter		Outside Diameter (over Jacket)		Min Bend Radius	Length of Reel	Connector
		Min (mm)	Max (mm)	Min (mm)	Max (mm)			
KT20\$	20	15.80	16.30	20.80	21.30	80	30	Depending on Application KCM" \$" - Flex FKCFM" \$" - Fixed FKCSM" \$" - Swivel
KT25\$	25	20.70	21.20	26.20	26.70	100	30	
KT32\$	32	26.20	26.80	32.70	33.40	150	30	

" \$" = Size in mm Colours: Black, Grey, Orange

