

ZIPPERTUBING®

Standard Cable Jacketing



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Tubing for holding, protecting and bundling cables of all kinds.
Z-FLEX™ for flat ribbon cables. (Z-FLEX™)

Type	GP	GPs	GPs/63	63	TREVIRA	VNL	VNH
Material	PVC	PVC	PVC	PVC	Trevira cloth	both sides vinyl-coated PET-cloth	both sides vinyl-coated PET-cloth
Construction	A, OL, ZRP	A	A	A, OL, ZRP	A	with or without overlap	with or without overlap
Closure-Systems	Z, R, F, D, N	Z, R, N	Z, R, N	Z, R, F, D, N	N-track snap buttons hook & loop	Z, R, N	Z, R, F, D, N
Locking strength (only Z- & D-tracks)	Z: 60 N/cm D: 65 N/cm	Z: 60 N/cm D: 65 N/cm	Z: 60 N/cm D: 65 N/cm	Z: 60 N/cm D: 65 N/cm	N-track 600 N/25 mm	Z: 60 N/cm D: 65 N/cm	Z: 60 N/cm D: 65 N/cm
Color(s)	black or grey	black	black	black or grey	black	black	grey-black
Wall strength in (mm) ± 10%	0,5	0,3	0,3	0,5	0,4	0,3	0,5
UL-Registration	-	-	E 169381	E 169381	-	-	-
Temperature-range (C°)	-20 °C (-30 °C) +105 °C	-20 °C (-30 °C) +105 °C	-20 °C (-30 °C) +105 °C	-20 °C (-30 °C) +105 °C	-40 °C + 160 °C	-20 °C + 105 °C	-20 °C + 105 °C
Self-extinguishing	yes	yes	yes	yes	yes	yes	yes
UV-resistant	yes	yes	yes	yes	yes	yes	yes
Ozone-resistant	yes	yes	yes	yes	yes	yes	yes
Weather-resistant	yes	yes	yes	yes	yes	yes	yes
Flammability	DIN 53 438 Part 2	DIN 53 438 Part 2	DIN 53 438 Part 2	DIN 53 438 Part 2	Class B1 DIN 4102 Part 1	NF P 92503 Class: M2	NF M82-011+ 82-013
Hardness: tubing / track	Shore A84/92	Shore A84/92	Shore A84/92	Shore A84/92	-	Shore A80/92	Shore A80/92
Available om meter rolls	50, 100, 200	50, 100, 200	50, 100, 200	50, 100, 200	50, 100	50, 100	50, 100

GP

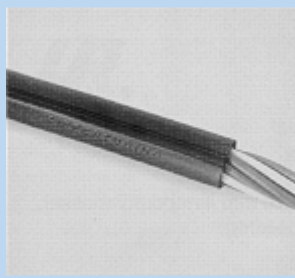


High quality, tough, flexible and reliable for most general purpose applications. Easily modified for breakouts and branches. Unlimited size with or without overlap. Available as flat or round cable.

Rolls: 50, 100, 200 meters
 Ø 9, 12, 16, 20, 25, 30 to 130 mm

Material	PVC
Construction	A, OL, ZRP
Closing Systems	Z, R, D, F, N (N from 12 mm)
Locking strength (only Z & D-tracks)	Z: 60 N/cm D: 65 N/cm
Wall thickness (mm) ± 10%	0,5
Color(s)	black or grey
UL-Registration	-
Temperature range	-20°C (-30°C) +105°C
Self-extinguishing	yes
UV-resistant	yes
Ozone-resistant	yes
Weather resistant	yes
Flammability	DIN 53 438 Part 2
Hardness: tubing / track	Shore A 84 / 92

GPs

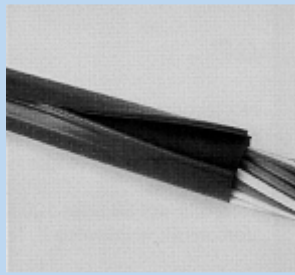


High quality jacketing, suitable for a wide variety of applications. Flexible and abrasion resistant. Suitable for round and flat cables, and for simple subsequent assembly.

Rolls: 50, 100, 200 meters
 Ø 9, 12, 16, 20, 25, 30 to 130 mm

Material	PVC
Construction	A
Closing Systems	Track: Z, R, N, (N from 12 mm)
Locking strength (only Z & D-tracks)	Z: 60 N/cm D: 65 N/cm
Wall thickness (mm) ± 10%	0,3
Color(s)	black
UL-Registration	-
Temperatue range	-20°C (-30°C) +105°C
Self-extinguishing	yes
UV-esistant	yes
Ozone-resistant	yes
Weather resistant	yes
Flammability	DIN 53438 Part 2

Type 63

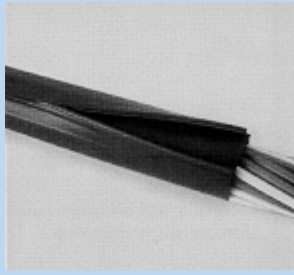


PVC-tubing that meets most demands for quality and lifetime flexibility. Overlap construction. UL-registration.

Rolls: 50, 100 or 200 meters, from 9 mm inner Ø

Material	PVC
Construction	A, OL, ZRP
Closing Systems	Z, R, D, F, N, (N from 12 mm)
Locking strength (only Z & D-tracks)	Z: 60 N/cm D: 65 N/cm
Wall thickness (mm) ± 10%	0,5
Color(s)	black or grey
UL-Registration	E 169381
Temperatue range	-20°C (-30°C) +105°C
Self-extinguishing	yes
UV-esistant	yes
Ozone-resistant	yes
Weather resistant	yes
Flammability	DIN 53 438 Part 2
Hardness: tubing / track	Shore A 84 / 92

GPs / 63



Very flexible, light weight, all-round Zip-On tubing for routine organizing of cable bundles in all electro-technical projects and equipment. UL-Registration.

Rolls: 50, 100 or 200 meters from 9 mm inner diameter.

Material	PVC
Construction	A
Closing Systems	Z, R, N, (N from 12 mm)
Locking strength (only Z & D-tracks)	Z: 60 N/cm D: 65 N/cm
Wall thickness (mm) ± 10%	0,3
Color(s)	black
UL-Registration	E 169381
Temperatue range	-20 °C (-30°C) +105 °C
Self-extinguishing	yes
UV-resistant	yes
Ozone-resistant	yes
Weather resistant	yes
Flammability	DIN 53 438 Part 2
Hardness: tubing / track	Shore A 84 / 92

TREVIRA

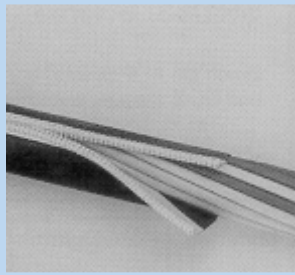


Trevira material - Halogene free according to DIN 5510.

Rolls: 50 or 100 meters.
 Ø 16, 20, 25, 30, 35, 40, 45, 50, 60 mm

Material	Trevira doth
Construction	A
Closing Systems	N-track, snap-buttons, hook and loop
Locking strength (only Z & D-tracks)	N-Track, 600 N/25 mm
Wall thickness (mm) ± 10%	0,4
Color(s)	black
UL-Registration	-
Temperatue range	-40 °C / +160 °C
Self-extinguishing	yes
UV-resistant	yes
Ozone-resistant	yes
Weather resistant	yes
Flammability	Class B1 DIN 4102 Part 1
Hardness: tubing / track	-

VNL



A rugged jacket, extremely flexible and lightweight. Flame retardant PVC is laminated to both sides of a polyester cloth, providing good wear resistance combined with high tear strength.

Rolls: 50 or 100 meters, from 9 mm inner diameter.

Material	both sides vinyl-coated PET-cloth
Construction	with or without overlap
Closing Systems	Z, R, N, (N from 12 mm)
Locking strength (only Z & D-tracks)	Z: 60 N/cm D: 65 N/cm
Wall thickness (mm) ± 10%	0,3
Color(s)	black
UL-Registration	-
Temperatue range	-20 °C / +105 °C
Self-extinguishing	yes
UV-resistant	yes
Ozone-resistant	yes
Weather resistant	yes
Flammability	NF P 92503 / Class: M2
Hardness: tubing / track	Shore A 80 / 92

VNH

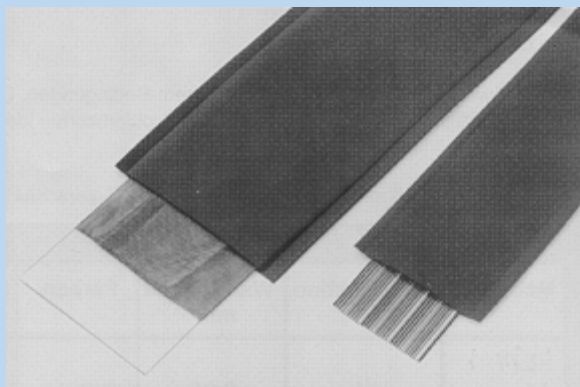


Flexible, tough jacketing with high tensile strength. Vinyl impregnated polyester cloth. For use where wires and cables are exposed to abuse, abrasion, rock impact or where tear strength counts.

Roll: 50, 100 meters from 9 mm inner Ø

Material	both sides vinyl-coated PET-cloth
Construction	with or without overlap
Closing Systems	Z, R, D, F, N (N from 12 mm)
Locking strength (only Z & D-tracks)	Z: 60 N/cm D: 65 N/cm
Wall thickness (mm) ± 10%	0,5
Color(s)	grey-black
UL-Registration	-
Temperatue range	-20 °C / +105 °C
Self-extinguishing	yes
UV-resistant	yes
Ozone-resistant	yes
Weather resistant	yes
Flammability	NF M82-011+ 82-013
Hardness: tubing / track	Shore A 80 / 92

Z-Flex™



Designed for single or multi-layered ribbon cables
choose from GP, 63 or GPs/63 materials.

With or without RFI/EMI shielding. UL-Registration with Type 63 or GPs/63.

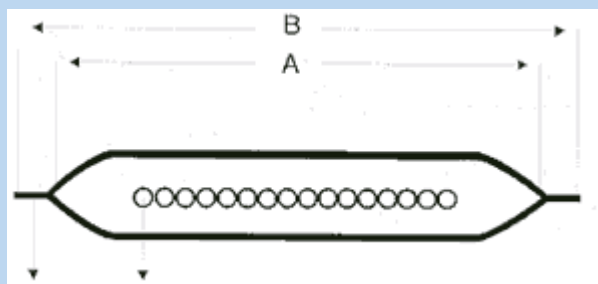
Advantages of Z-Flex™ :

- tidy cables
- high flexibility
- super flat
- excellent mechanical protection
- space saving applications

Examples of dimensions available:

No. of leads per cable	width of cable in mm	A Int. Dim	B Ext. Dim
20	26	31	37
24	31		
25	32	37	43
26	33		
34	44	49	55
37	47		
40	51	56	62
50	64	69	75
60	77		
64	82	87	92



Height of ribbon cable is 1 mm.
Special sizes on request






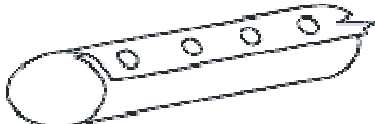
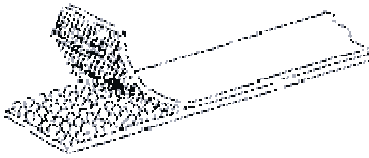
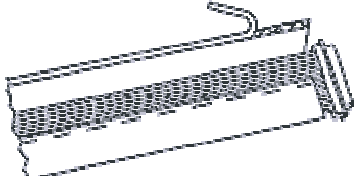
When ordering remember to state WIDTH and HEIGHT of ribbon cables to be jacketed.

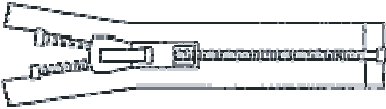

This data-sheet is subject to changes without notice

Standard constructions

<p>A standard construction</p>	
<p>OL with inside overlap (protects closure under stress conditions)</p>	
<p>ZRP flat tubing with R-track, customized production</p>	

Closure methods

<p>Z-track</p> <p>Standard track for all ZT-cable jacketing</p>	
<p>R-, F-track</p> <p>R from $\varnothing = 9$ (mm) F from $\varnothing = 20$ (mm)</p>	
<p>N-track</p> <p>A zipper for highest requirements.</p> <p>Flexible, rapid closure system, ideal for greater lengths, especially where heat protection is needed. Brass zipper on nomex base is sewn onto ZETREFLECT™ material. Available on rolls or as ready-made pieces.</p>	
<p>Snap-buttons</p> <p>Snap-buttons allow safe and easy closure, especially in high temperature environments. Stainless steel - for tubing up to max. 2m length.</p>	
<p>Hook & Loop</p> <p>HOOK & LOOP is the perfect closure method for temperatures up to 180°C. Ideal for subsequent reassembly. Fold jacketing around area to be protected - press together - ready. Simple - quick - reliable.</p>	
<p>A-track - adhesive strips (acrylic)</p> <p>Double-sided adhesive tape (UL version on request) for quick, flexible assembly of cable jacketing, especially suitable for short lengths.</p>	

<p>Nt-Track - split zipper</p> <p>See N-track. Ideal for customized parts.</p>	
<p>D-track</p> <p>For variable lengths - tough conditions Advantages:</p> <p>Track Closure tool applied externally, allows closure of tight-fitting tubing, no contact of tools with cables inside, rollers allow quick smooth closure, no friction, fast assembly</p> <p>Expansion Folds Expansion folds allow strong hold-strength in twists and bends, branch-outs. Splices and connectors can be easily accommodated. Inside diam. 8 mm upwards</p>	

How to Order

How to order : **Example:**

You wish to order 100 metres material with Z-track, inner Ø 25 mm, type GP, wall-thickness 0,5 mm, color grey with inside overlap ...

100m	ZTZ	25	GP	0,5	G	OL
Total length in meters	ZTZ - Z-track	Inner diameter in mm	type	Wall thickness in mm	color	With overlap
	ZTR - R-track					
	ZTF - F-track					
	ZTN - N-track					
	ZTA - A-track					
	ZTD - D-track					

Note: When ordering choose a diameter 3 - 5 mm more than the actual diameter of cable or cable bundles.

Standard production: Inside diameter: 9, 12, 16, 20, 25, 30, 35, 40, 45, 50 and upwards in 5 mm increments

Ribbon cable: When ordering ribbon cable jackets please state WIDTH and HEIGHT of ribbon cable to be jacketed.

