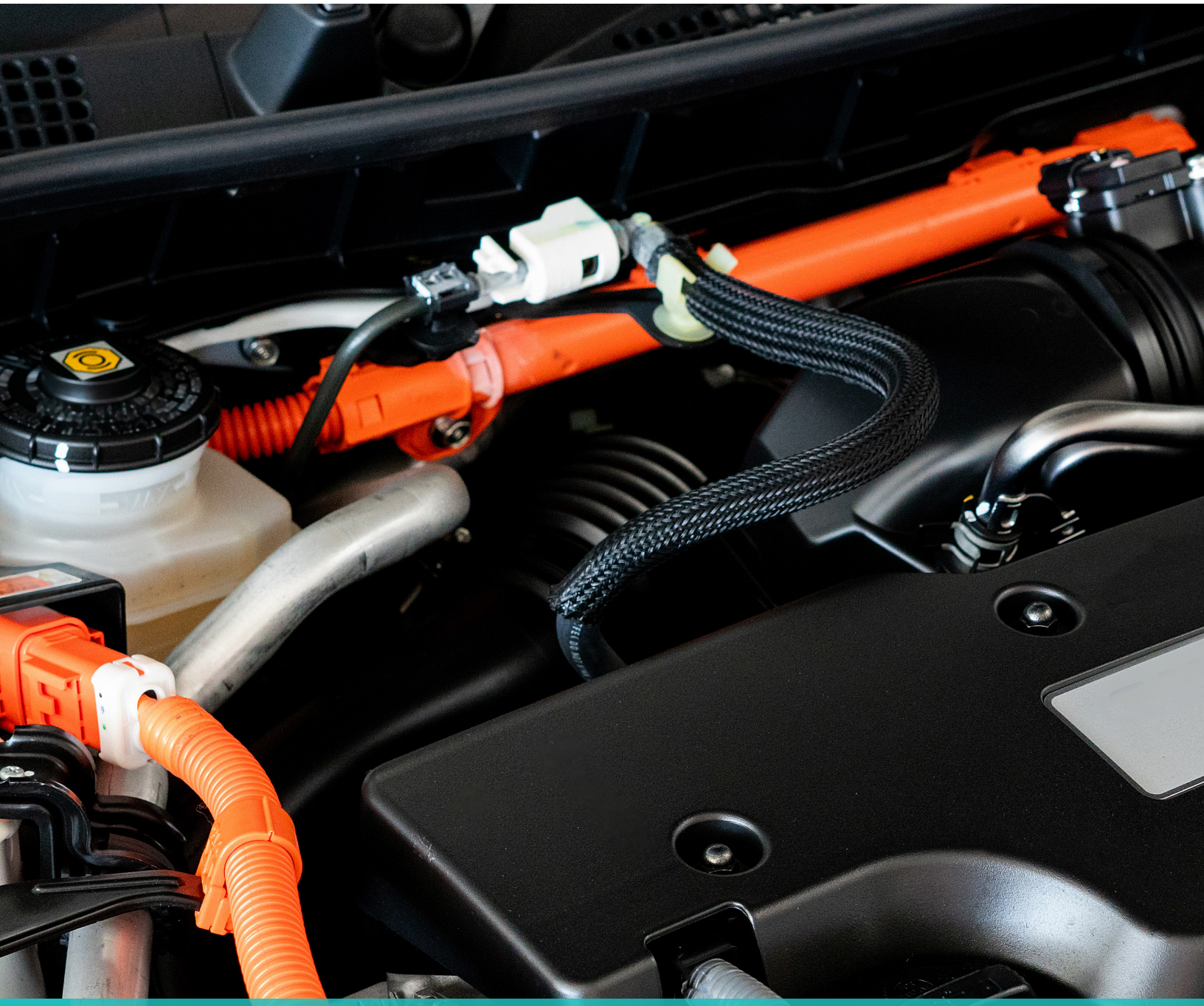
HellermannTyton



High-Visibility Protection Products

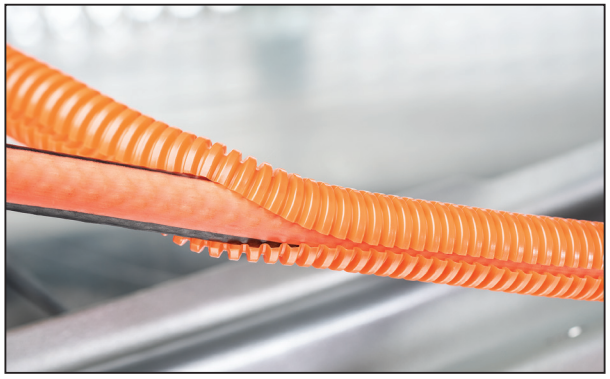
For identifying high voltage in electric vehicle and infrastructure applications

MADE FOR REAL®

Convoluted Tubing

Convoluted Tubing in PE

HellermannTyton's Convoluted Tubing, also known as split loom tubing, provides an efficient method of routing and protecting wire harness assemblies, while reducing the chance of installation damage. With a split down the side where a wire harness can be inserted, convoluted tubing can be easily installed without removal of the entire assembly. It can also protect valuable hoses and cables. Convoluted tubing offers excellent protection against vibration wear, water, snow, ice and the effects of heat, cold and sunlight on cables and wires.



MATERIAL	Polyethylene (PE)
Operating Temperature	-40°F to +185°F (-40°C to +85°C)
Flammability	Not flame retardant

RoHS

Features and Benefits

- Split side is ideal for applications where braided tubing or spiral wrap may be difficult to install.
- Tubing provides full coverage where spiral wrap or other coverings may not be suitable.
- Provides resistance to crushing, impact and abrasion for performance in harsh applications.

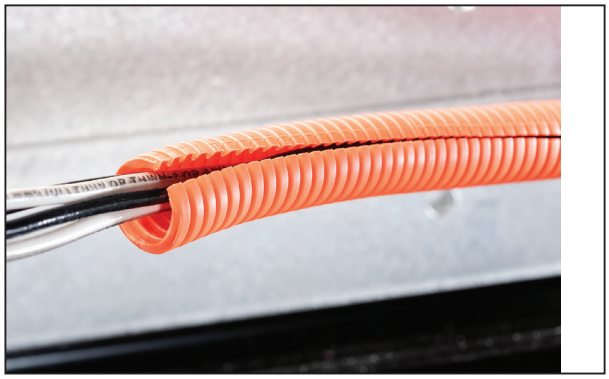
PART NO.	TYPE	Nominal Dia. in. (mm)	Outside Diameter (D) in. (mm)	Inner Diameter (D2) in. (mm)	Wall Thickness in. (mm)	Color	Pkg. Qty. Feet
Slit							
169-60550	**CTP140**	1/4 (6.4)	0.398 (10.1)	0.276 (7.0)	0.004 (0.1)	Orange, High Voltage	3200
169-60553	**CTP380**	3/8 (9.7)	0.526 (13.4)	0.380 (9.7)	0.005 (0.1)	Orange, High Voltage	1900
169-60549	**CTP120**	1/2 (12.7)	0.70 (17.8)	0.516 (13.1)	0.005 (0.1)	Orange, High Voltage	1100
169-60552	**CTP340**	3/4 (19.1)	0.989 (25.1)	0.759 (19.3)	0.005 (0.1)	Orange, High Voltage	550
169-60547	**CTP10**	1 (25.4)	1.304 (33.1)	1.069 (27.2)	0.006 (0.2)	Orange, High Voltage	300
169-60555	**CTP1140**	1-1/4 (31.8)	1.50 (38.1)	1.257 (31.9)	0.006 (0.2)	Orange, High Voltage	250
169-60548	**CTP1120**	1-1/2 (38.1)	1.947 (49.5)	1.647 (41.8)	0.006 (0.2)	Orange, High Voltage	150
169-60551	**CTP20**	2 (50.8)	2.388 (60.7)	2.038 (51.8)	0.011 (0.3)	Orange, High Voltage	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Convoluted Tubing

Convoluted Tubing in PPFR

HellermannTyton's Convoluted Tubing, also known as split loom tubing, provides an efficient method of routing and protecting wire harness assemblies while reducing the chance of installation damage. With a split down the side for inserting a wire harness, installation can be done without removal of the entire assembly. It can also protect valuable hoses and cables. Available in a variety of materials providing a range of flame resistance and operating temperatures.



MATERIAL	Polypropylene, flame retardant (PPFR)
Operating Temperature	-40°F to +257°F (-40°C to +125°C)
Color	Orange (OG), High Voltage (HV)

RoHS

Features and Benefits

- Split side is ideal for applications where braided tubing or spiral wrap may be difficult to install.
- Tubing provides full coverage where spiral wrap or other coverings may not be suitable.
- Product design offers exceptional protection against automotive fluids, vibration wear, water, snow, ice, and the effects of heat, cold and sunlight on cables and wires.
- Excellent flame resistance with higher operating temperature range than PE tubing.

PART NO.	TYPE	Nominal Dia. in. (mm)	Outside Diameter (D) in. (mm)	Inner Diameter (D2) in. (mm)	Wall Thickness in. (mm)	Color	Pkg. Qty. Feet
Split							
169-60120	**CTPPFR140**	1/4 (6.4)	0.40 (10.2)	0.266 (6.8)	0.004 (0.1)	Orange, High Voltage	3200
169-60121	**CTPPFR380**	3/8 (9.7)	0.526 (13.4)	0.380 (9.7)	0.005 (0.1)	Orange, High Voltage	1800
169-60122	**CTPPFR716**	7/16 (11.1)	0.597 (15.2)	0.437 (11.1)	0.005 (0.1)	Orange, High Voltage	1400
169-60123	**CTPPFR120**	1/2 (12.7)	0.70 (17.8)	0.516 (13.1)	0.005 (0.1)	Orange, High Voltage	1100
169-60124	**CTPPFR580**	5/8 (16.0)	0.837 (21.3)	0.639 (16.2)	0.005 (0.1)	Orange, High Voltage	750
169-60125	**CTPPFR340**	3/4 (19.1)	0.989 (25.1)	0.759 (19.3)	0.005 (0.1)	Orange, High Voltage	500
169-60126	**CTPPFR10**	1 (25.4)	1.304 (33.1)	1.069 (27.2)	0.006 (0.2)	Orange, High Voltage	300
169-60127	**CTPPFR1140**	1-1/4 (31.8)	1.50 (38.1)	1.257 (31.9)	0.006 (0.2)	Orange, High Voltage	200
169-60128	**CTPPFR1120**	1-1/2 (38.1)	1.947 (49.5)	1.647 (41.8)	0.006 (0.2)	Orange, High Voltage	100

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

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Braided Sleeving

Twist-In Sleeving

HelaGaine Twist-In is made of a woven, self-closing material for fast and easy installation of wires. Easy access and excellent abrasion protection.

Features and Benefits

- Flexible, woven construction reduces abrasion and simplifies cable inspection.
- Self-wrapping feature allows for easy installation and removal of sleeving from enclosed components and cables.
- Over-wrapping pattern bends to tight radius yet prevents accidental exposure of wires.

MATERIAL	Polyester (PET)
Operating Temperature	-58°F to +257°F (-50°C to +125°C)
Flammability	Self-extinguishing, FMVSS 302, Type B
Melting Point	+491 °F (+255 °C)

RoHS

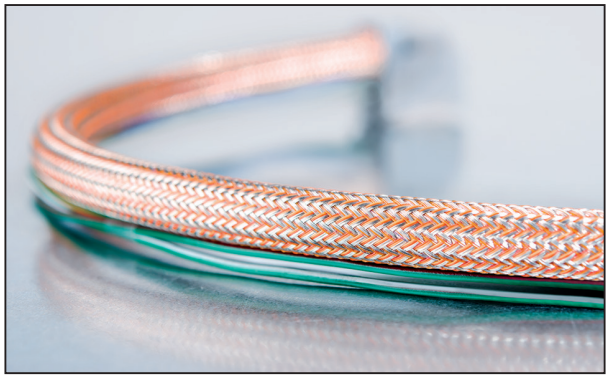
PART NO.	TYPE	Nominal Dia. (D) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length (L) ft. (m)
170-01121	**Twist-In(A)08**	0.31 (8.0)	0.2 (5.0)	0.3 (8.0)	Orange, High Voltage	656.0 (200.0)
170-01119	**Twist-In(A)13**	0.51 (13.0)	0.4 (10.0)	0.5 (13.0)	Orange, High Voltage	164.0 (50.0)
170-01120	**Twist-In(A)16**	0.63 (16.0)	0.5 (13.0)	0.8 (19.0)	Orange, High Voltage	164.0 (50.0)
170-01126	**Twist-In(A)25**	0.98 (25.0)	0.8 (19.0)	1.0 (25.0)	Orange, High Voltage	82.0 (25.0)
170-01128	**Twist-In(A)32**	1.26 (32.0)	1.1 (29.0)	1.3 (32.0)	Orange, High Voltage	82.0 (25.0)
170-01130	**Twist-In(A)50**	1.97 (50.0)	1.5 (38.0)	2.0 (50.0)	Orange, High Voltage	28.0 (25.0)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Braided Sleeving for Electromagnetic Protection

Helagaine HEGEMIP-HY

Special braided sleeving protects sensitive electronics from electromagnetic interference in hybrid and electric-powered vehicles. It won't rupture or kink, even when flexed at sharp angles. The sleeving has a 3:1 expansion ratio.



MATERIAL	Polyester (PET), Tin-plated copper (SNCU)
Operating Temperature	-40°F to +302°F (-40°C to +150°C)
Flammability	UL 94 V-2, FMVSS 302

HF ✓ RoHS ✓

Features and Benefits

- Unique blend of polyester (protection yarns) and tinned copper (shielding yarns) offers excellent flexibility and EMI protection.
- Extremely flexible, expandable and easy to apply, making this product particularly well-suited for applications with space restrictions.
- Special copper alloy for enhanced protection against salt spray.
- Excellent flame resistance properties, including UL 94 V-2 and FMVSS 302 certifications.

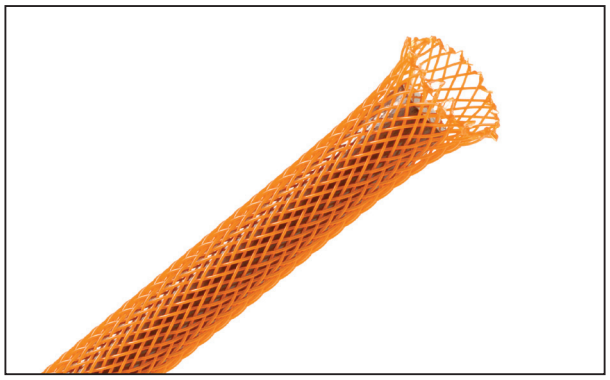
PART NO.	TYPE	Nominal Dia. (D) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length (L) ft. (m)
173-02001	**HEGEMIP-HY20**	0.8 (20.0)	0.7 (19.0)	1.1 (27.0)	Orange, High Voltage	164.0 (50.0)
173-03000	**HEGEMIP-HY30**	1.2 (30.0)	0.9 (25.0)	1.4 (35.0)	Orange, High Voltage	164.0 (50.0)
173-03501	**HEGEMIP-HY35**	1.4 (35.0)	1.2 (30.0)	1.6 (40.0)	Orange, High Voltage	164.0 (50.0)
173-04000	**HEGEMIP-HY40**	1.6 (40.0)	1.2 (30.0)	1.9 (50.0)	Orange, High Voltage	164.0 (50.0)
173-05000	**HEGEMIP-HY50**	1.9 (50.0)	1.6 (40.0)	2.4 (60.0)	Orange, High Voltage	164.0 (50.0)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Braided Sleeving - General Purpose

General Purpose Expandable Braided Sleeving - Orange

Orange PET braided sleeving is an extremely flexible, general-purpose option for bundling and protecting wires and cables in abrasive applications. Its color makes it ideal for systematic color coding of complex wiring installations.



MATERIAL	Polyester (PET)
Operating Temperature	-94°F to +257°F (-70°C to +125°C)
Flammability	UL 94 V-0, FMVSS 302, FAR 25
Melting Point	+482 °F (+250 °C)
Abrasion Resistance	Medium

HF ✓ RoHS ✓

Features and Benefits

- Unique color provides easy visual and safety identification of critical wiring components.
- PET material offers high tensile strength while maintaining extreme flexibility.
- Expands up to 150% of flat diameter for easy wire installation.
- Breathable construction does not trap heat or humidity.
- Installs quickly and accommodates expansions and varying cable assembly shapes, reducing installation costs.

PART NO.	TYPE	Nominal Dia. (D) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length (L) ft. (m)
170-03076	**BSP143B**	0.25 (6.4)	0.1 (3.2)	0.4 (11.1)	Orange, High Voltage	1,000.0 (304.8)
170-03077	**BSP123B**	0.5 (12.7)	0.3 (6.4)	0.8 (19.1)	Orange, High Voltage	500.0 (152.4)
170-03078	**BSP343B**	0.75 (19.1)	0.5 (12.7)	1.3 (31.8)	Orange, High Voltage	250.0 (76.2)
170-03079	**BSP103B**	1 (25.4)	0.6 (15.9)	1.6 (41.3)	Orange, High Voltage	250.0 (76.2)
170-03080	**BSP1143B**	1.25 (31.8)	0.8 (19.1)	1.8 (44.5)	Orange, High Voltage	250.0 (76.2)
170-03081	**BSP1123B**	1.5 (38.1)	1.5 (38.1)	3.5 (88.9)	Orange, High Voltage	200.0 (61.0)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Please note - not all products listed on this page may have this approval. Please see www.Hellermann.Tyton.com for the latest approvals.

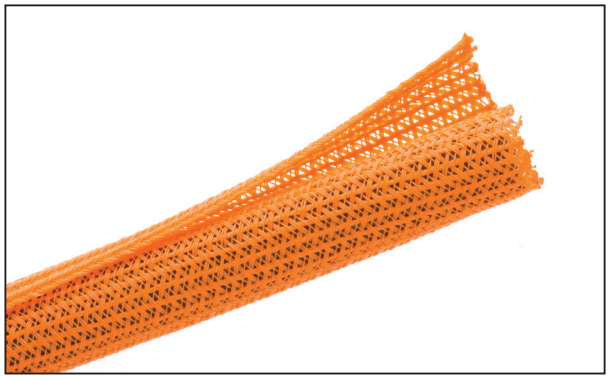
Braided Sleeving - Wraps

Braided Sleeving - Split Wrap

Used for safety identification, this bundling and protection option also offers a lateral split and a semi-rigid braid configuration that wraps around the bundle assembly without requiring fasteners, such as hook and loop, cable ties or tape.

Features and Benefits

- Split-wrap design needs no fasteners and installs quickly, saving assembly time and future accessibility without disassembly.
- Bends to a tight radius without distortion or splitting open.
- Unique construction retains shape and rigidity throughout unrolling.
- Easy-open design allows quick access and ability to apply protective sleeving post assembly or post installation situations.



MATERIAL	Polyester (PET)
Operating Temperature	-94°F to +257°F (-70°C to +125°C)
Flammability	UL 94 V-0
Melting Point	+482 °F (+250 °C)
Abrasion Resistance	Medium

HF RoHS

PART NO.	TYPE	Nominal Dia. (D) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length (L) ft. (m)
170-03082	**BSPSW143B**	0.25 (6.4)	0.1 (2.5)	0.3 (6.4)	Orange, High Voltage	200.0 (61.0)
170-03083	**BSPSW123B**	0.5 (12.7)	0.1 (2.5)	0.5 (12.7)	Orange, High Voltage	150.0 (45.7)
170-03084	**BSPSW343B**	0.75 (19.1)	0.1 (2.5)	0.8 (19.1)	Orange, High Voltage	100.0 (30.5)
170-03085	**BSPSW103B**	1 (25.4)	0.1 (2.5)	1.0 (25.4)	Orange, High Voltage	100.0 (30.5)
170-03086	**BSPSW1143B**	1.25 (31.8)	0.1 (2.5)	1.3 (31.8)	Orange, High Voltage	75.0 (22.9)
170-03087	**BSPSW1123B**	1.5 (38.1)	0.1 (2.5)	1.5 (38.1)	Orange, High Voltage	75.0 (22.9)
170-03088	**BSPSW203B**	2 (50.8)	0.1 (2.5)	2.0 (50.8)	Orange, High Voltage	50.0 (15.2)

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Braided Sleeving - Wraps

Woven Wrap - PET

This split, wrap-around style woven convoluted sleeving utilizes a unique elastic construction for added flexibility and abrasion resistance. The overlapping design creates material memory allowing the sleeve to quickly roll back over connectors and splices without exposing bundled cabling.

Features and Benefits

- Self-wrapping feature allows easy installation and future access to wire and cables.
- Unique blend and construction using monofilament and mutifilament strands provide flexibility, high coverage and abrasion resistance.
- Extra overlapping design keeps wires contained even in tight bend conditions.

MATERIAL	Polyester (PET)
Operating Temperature	-94°F to +302°F (-70°C to +150°C)
Flammability	UL 94 V-0 and FMVSS-302
Melting Point	+482 °F (+250 °C)

RoHS

PART NO.	TYPE	Nominal Dia. (D) in. (mm)	Min. Bundle Diameter in. (mm)	Max. Bundle Diameter in. (mm)	Color	Reel Length (L) ft. (m)
170-03231	**BSPW316**	0.197 (5.0)	0.1 (2.5)	0.2 (4.7)	Orange	500.0 (152.4)
170-03232	**BSPW516**	0.315 (8.0)	0.1 (2.5)	0.3 (8.0)	Orange	325.0 (99.1)
170-03230	**BSPW380**	0.394 (10.0)	0.1 (2.5)	0.4 (9.5)	Orange	150.0 (45.7)
170-03233	**BSPW120**	0.512 (13.0)	0.1 (2.5)	0.5 (12.7)	Orange	150.0 (45.7)
170-03234	**BSPW580**	0.630 (16.0)	0.1 (2.5)	0.6 (16.1)	Orange	100.0 (30.5)
170-03235	**BSPW340**	0.748 (19.0)	0.1 (2.5)	0.8 (19.1)	Orange	100.0 (30.5)
170-03236	**BSPW10**	0.984 (25.0)	0.1 (2.5)	1.0 (25.4)	Orange	100.0 (30.5)
170-03237	**BSPW1140**	1.181 (30.0)	0.1 (2.5)	1.3 (31.8)	Orange	50.0 (15.2)
170-03238	**BSPW1120**	1.496 (38.0)	0.1 (2.5)	1.5 (38.1)	Orange	50.0 (15.2)

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

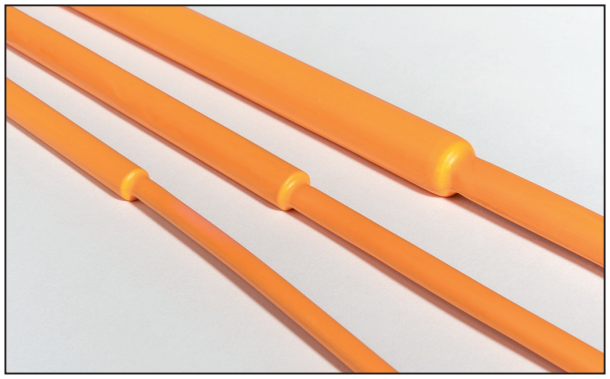
Non-Adhesive 2-to-1 Shrink Ratio

Heat Shrink Tubing - TF21

TF21 is highly flexible, thin-wall, heat-shrink tubing with a 2-to-1 shrink ratio and excellent flame retardant properties. In addition to providing insulation and abrasion protection for wires and cables, the polyolefin material also offers resistance to oils, solvents and chemicals. TF21 is UL Recognized with a UL 224 VW-1 flame rating.

Features and Benefits

- Quick and easy shrinking TF21 tubing is widely used for insulating, mechanical protection, strain relief, marking and bundling.
- The excellent balance of electrical, mechanical and chemical properties meets and exceeds industrial standards.
- TF21 is UL 224 Recognized and available in a wide range of sizes and colors.



MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Longitudinal Change After Shrinkage	+/-5%
Min. Shrink Temperature	+194 °F (+90 °C)
Operating Temperature	-67°F to +275°F (-55°C to +135°C)
Flammability	ASTM D876

RoHS

PART NO.	TYPE	Supplied Ø (D) mm	Recovered Ø (D) mm	Wall Thickness mm	Color
309-20483	**TF21-4.8/2.4**	4.8	2.4	0.5	Orange, High Voltage
309-20953	**TF21-9.5/4.8**	9.5	4.8	0.6	Orange, High Voltage
309-21273	**TF21-12.7/6.4**	12.7	6.4	0.6	Orange, High Voltage
309-21903	**TF21-19.1/9.5**	19.1	9.5	0.8	Orange, High Voltage

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

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ISO 9001 certified

LITPD379, 04.2022

HellermannTyton

High-Visibility Protection Products for Electrical Systems & Infrastructure

Product Overview

Product Line

Route & Protect Wire, Cables and Harnesses

Orange-colored materials help identify high voltage components

A wide range of product solutions are available based on specific needs of any given application

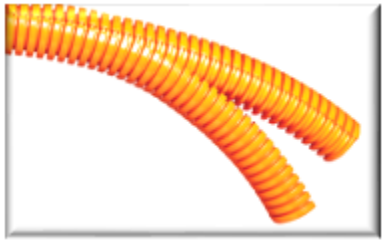
Convoluted Tubing

Sleeving (Braided & Woven)

EMI Shielding Sleeves

Heat Shrink Tubing

PVC Electrical Tape

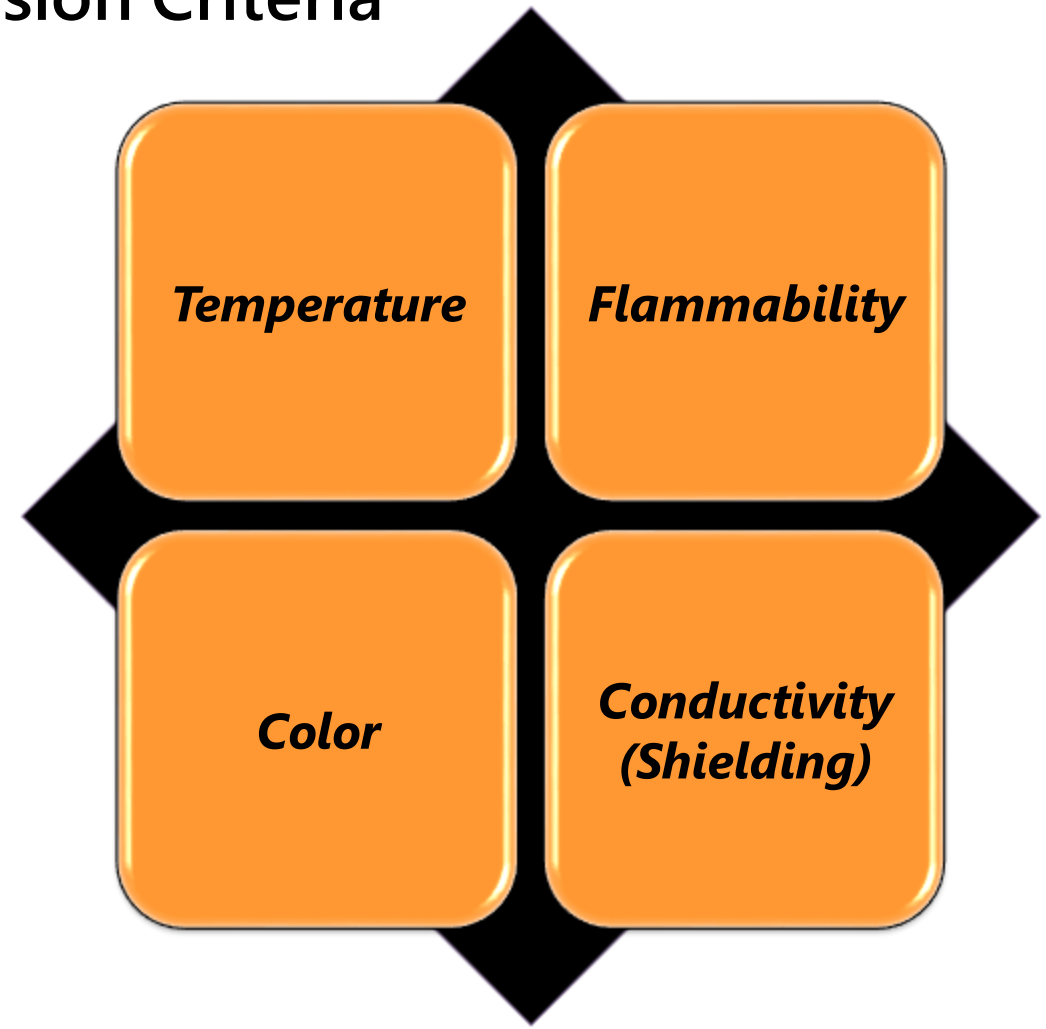


Flexible Nylon Conduit

Applications

HellermannTyton

Key Decision Criteria



Temperature Range

- 85°C
- 125°C

Flame Rating

- No Flame Rating
- UL94-V2 / FMVSS-302
- UL94-V0

Color

- Orange
- Black

Market Definition

HellermannTyton

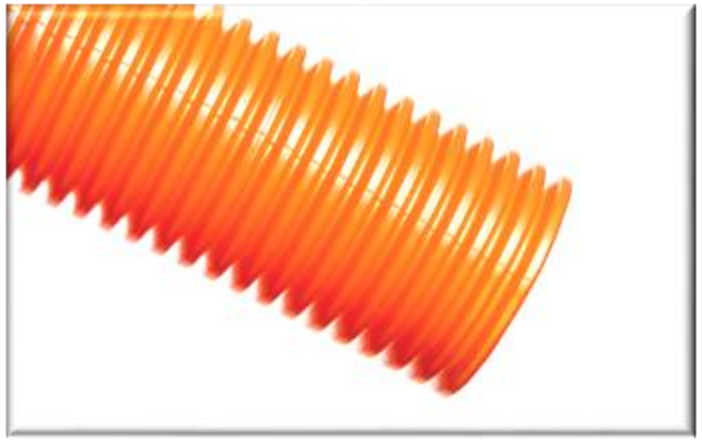
Electrification (In scope)

- Any product that uses battery energy to produce motion along with their supporting infrastructure.

Product overview

HellermannTyton

Convoluted Tubing



Polyethylene (PE)

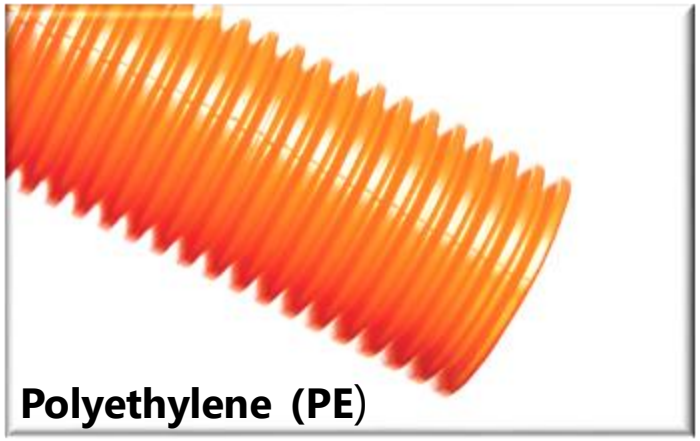
Flame Retardant Polypropylene (PP-FR)

- Economical/low cost solution for cable routing & protection with light abrasion resistance properties
- Slit for easy insertion and extraction of terminated wire and cabling
- Polyethylene is lowest cost option, but has limited upper temperature range and is potentially flammable
- Moisture and condensation can collect in open slit tubing
- Typically requires some sort of taping operation or bundling to secure wires and prevent inadvertent exposure
- Flame retardant Polypropylene (PP-FR) has higher operating temperatures & flame resistance properties
- PP-FR is a bit more rigid (stiffness) but offers greater abrasion resistance

Selecting the Right Convoluted Tubing Solution

HellermannTyton

Convoluted Tubing Options



Polyethylene (PE)

Consider When…

- Lowest Cost Solution is primary decision driver
- Flame Resistance is not required
- Only need light abrasion or impact protection
- Upper temperature requirements do not exceed 85° C
- Need extreme flexibility

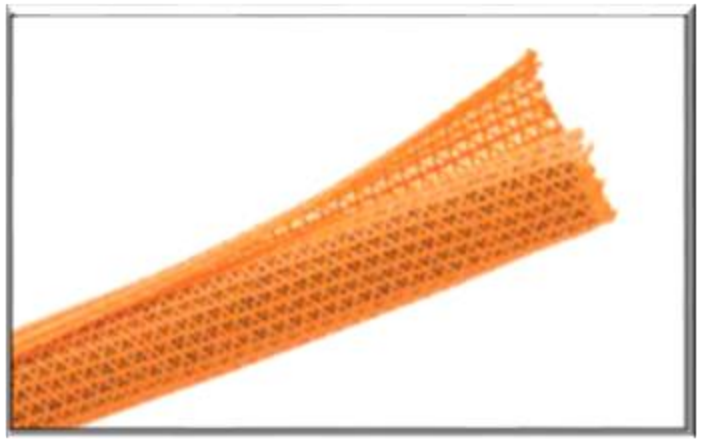
Flame Retardant Polypropylene (PP-FR)

Consider When …

- Self Extinguishing or UL94-V2 flame rating is required
- Higher temperature range is required (+125°C)
- Need greater impact and abrasion protection
- Application does not require tight bend radius

Product overview

Expandable and Split Wrap Braided Sleeve



Split Wrap Braided Sleeve

Expandable Braided Sleeve

- Expandable braided sleeving and wrap around style sleeves are lightweight and extremely flexible
- Provides medium to high level of abrasion protection
- Braided construction allows air to flow through to dissipate moisture and heat generated by cabling.
- Tube style expands to 2-3x relaxed state to easily adjust for fluctuations in cable dimensions along length of harness
- Wrap around style is applied after wires or cables have been installed / terminated. Allows future access.

Selecting the Right Sleeving Solution

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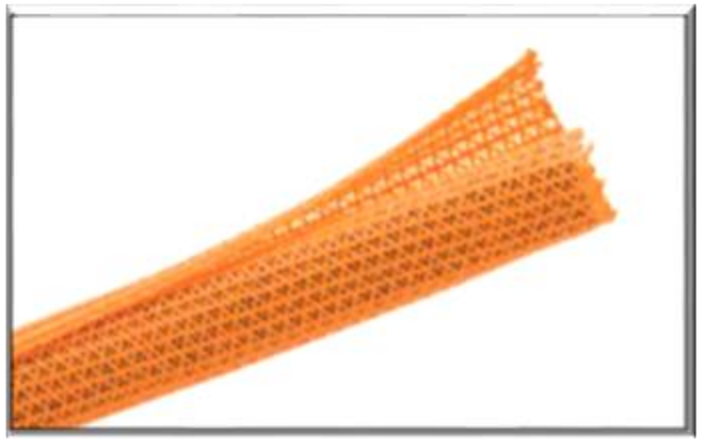
Split Wrap / Wrap Around Style vs. Expandable Sleeve

Expandable Braided Sleeve

Consider When…

- Adding abrasion protection to hoses
- Very long or very short lengths are required
- Lowest cost solution is primary driver
- Looking for a “flat” or very tight-fitting solution; perhaps trying to create a certain aesthetic or squeezing in between two tightly spaced components



Split Wrap / Wrap Style Sleeve

Consider When…

- Need to add abrasion protection after assembly is complete
- Will need future access to all or section of cable wire harness
- Looking to create a branch-out or in, at some point along its length
- Want to avoid routing wires through long lengths of sleeving which can snag on expandable yarn construction

Product overview

Woven Wrap Style Sleeves

Split Wrap Woven Convoluted Sleeve

Twist-In (A)

- Woven style wraps are lightweight with extra flexibility to fit into very tight spaces without kinking the cable
- Woven construction prevents ingress of dust which can build up on wires and harnesses
- Woven sleeves have more “overlap” which helps prevent wires being exposed when installed around tight corners
- Softer woven style materials create less noise when used within applications that involve vibration or movement
- The convoluted wrap sleeve has a unique combination of monofilament and multifilament yarns that increases abrasion protection while adding flexibility.

Selecting the Right Wrap Sleeve Solution

Split Wrap / Wrap Around Options

Split Wrap Woven Convoluted Sleeve

Consider When…

- Need increased abrasion protection / maintain flexibility
- Tighter bend without exposing wires
- Less likely to crimp during an internal bend
- UL94 V0 and FMVSS 302
- Less likely to fray ends

Twist-In (A)

Consider When…

- Softer material, reduces “noise” caused by vibration
- Designed for light abrasion protection
- Use for “exact” match specifications developed in Europe
- FMVSS 302 Certifications

Product overview

EMI Shielding Sleeve

Electromagnetic Interference Sleeve

EMI Expandable Sleeving

- Unique blend of polyester yarns and tinned copper braid creates an electromagnetic shield while maintaining the flexible nature of a braided sleeve.
- Tin braid also protects against incidental impact by sharp objects such as stones or road debris
- Polyester helps resist kinking of sleeve, even at sharp twists or directional changes
- Excellent flame resistance properties
- Meets EMI Requirements: 10KHz to 1GHz according to CISP25 (DIN VDE 08 79-2)

Product overview

Insulation Products

Thin Wall Heat Shrink Tubing

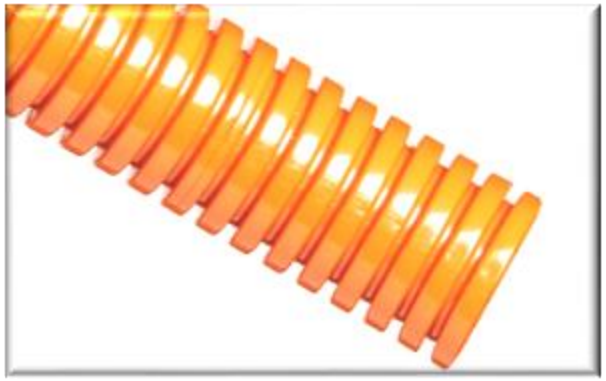
PVC Electrical Tape

- Heat shrink tubing is used to create an insulating seal against moisture and dirt
- Polyolefin resists most road and chemicals used with an automotive application
- Heat shrink also serves as strain relief and provides protection against light abrasion

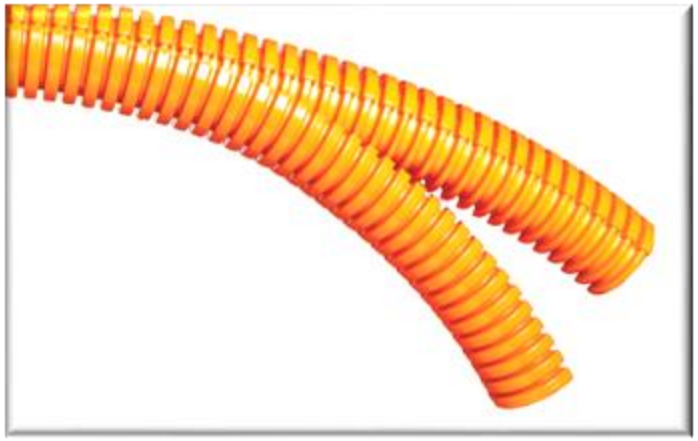
- PVC electrical tape provides quick and easy color-coding, cable splicing and helps seal against dirt and moisture

Product overview

Flexible Nylon Conduit



PA6 Nylon

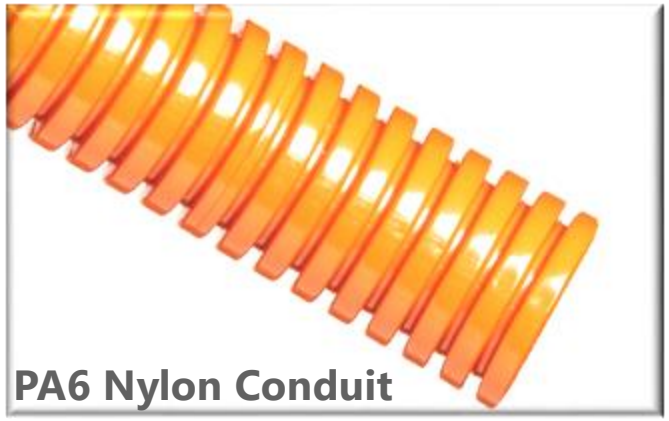


PA6 Double Slit Conduit

- Nylon conduits provide elevated protection against abrasion and exposure
- Provide liquid tight ingress solution when used with snap-on style fittings
- Double Slit consists of one semi-circular tube that snaps over another to envelop a wire or cable bundle.
- Double Slit makes it possible to add flexible corrugated protection that is already connected on both ends.
- Flexible nylon conduits are easy to cut, provides impact protection against sharp objects and recovers quickly if crushed.

Selecting the Right Conduit Solution

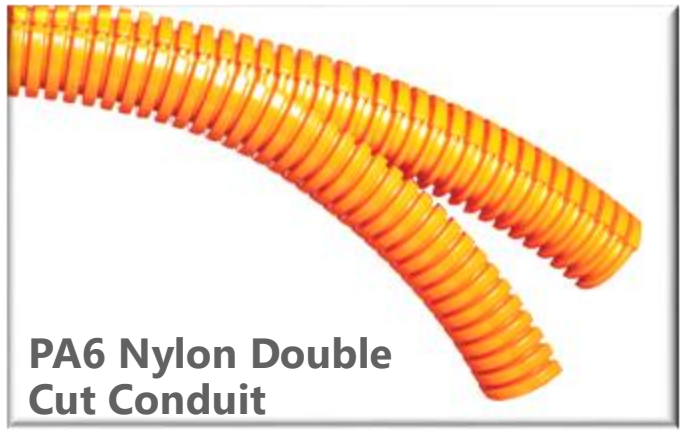
Flexible Nylon Conduit



PA6 Nylon Conduit

Consider When…

- Risk of damaging wire from crushing or impact caused by sharp object is high
- Needing ingress protection against liquids, dirt and debris.
- Looking to create a liquid-tight end-to-end solution, using snap on fittings. Fittings also provide smooth bore through wall plate or surface.



PA6 Nylon Double Cut Conduit

Consider When…

- Need additional impact resistance
- Need quick insert, access and retrieval of wires
- Want to minimize wires snagging on corrugated walls during insertion

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