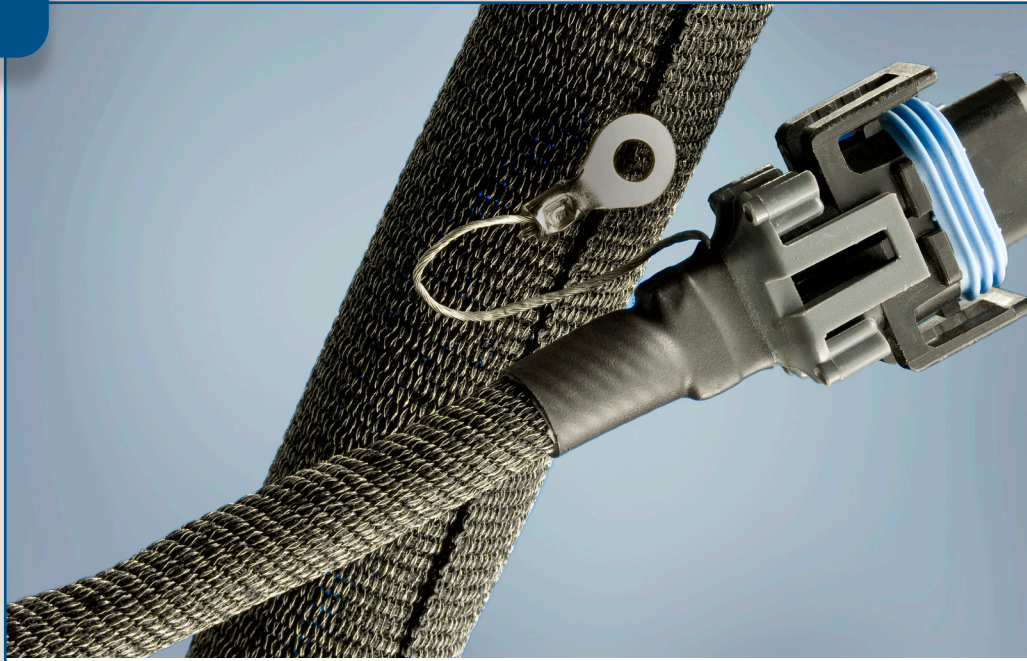


Product Highlights

- Operating temperature up to +150°C (+302°F)
- Provides electromagnetic shielding
- Self-wrapping design
- Stable woven construction
- Multiple grounding options available

Typical Applications

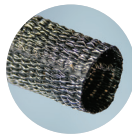
- Instrument panel harnesses
- Engine compartment harnesses
- Battery cables
- Interior harnesses



TwistTube® 2473 is a family of self-wrapping sleeves designed to provide electromagnetic (EM) screening attenuation. Tinned copper wire is combined with polyester yarn to create a wrappable product that offers flexibility and consistent shielding protection. The product features an acrylic/silicone coating to prevent end fray and enable cold cutting to specific application length.

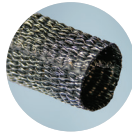
Engineered to reduce installation time, the wrappable design can accommodate breakouts and be installed over completed assemblies. Unlike foils that may crack while in use, TwistTube 2473 is durable and tear resistant, enabling it to provide long term protection. Additionally the more stable woven construction eliminates performance variances commonly exhibited by traditional braids where installation over varying harness size or rough handling may cause inconsistent performance.

Special grounding versions available depending upon application.



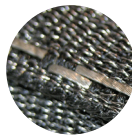
TwistTube® 2473

Standard product designed for backshell style grounding.



TwistTube® 2473 C

TwistTube 2473 with additional metal in the fill/cross direction for specialty applications.



TwistTube® 2473D

TwistTube 2473C construction with the addition of two integrated tinned copper drain wires to be extended and used for grounding. Product can be delivered with drain wires extended and terminations preinstalled to customer specifications.



TwistTube® 2473 C-S

TwistTube 2473C construction with mechanically attached custom drain wires.



Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)

Performance Data – TwistTube® 2473

Property	Test Method	Result
Operating Temperature		+150°C (+302°F)
Heat Aging 240hrs @+175°C	ISO 6722	Neither visible degradation nor loss of flexibility Shrinkage < 10%
Low Temperature Flexibility	SAE J2192	Pass -40°C (-40°F)
Flammability	FMVSS 302	Pass
Fluid Resistance	D47 1924	No visible degradation or alteration after being immersed during 24 hrs in the typical automotive fluids
Shielding Effectiveness	IEC 62153-4-3	See graph below
Ohmic Resistance After Salt Mist	96 hour exposure per EN 3475-301	<10% increase in resistance

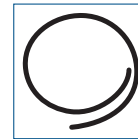
All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

Standard Sizes

Commercial Part Number	Nominal diameter (mm)	Recommended Application Range (mm)	
		Min Ø	Max Ø
TwistTube 2473 5-0/	5	1	5
TwistTube 2473 8-0/	8	6	8
TwistTube 2473 10-0/	10	9	10
TwistTube 2473 13-0/	13	11	13
TwistTube 2473 16-0/	16	14	16
TwistTube 2473 19-0/	19	17	19
TwistTube 2473 25-0/	25	20	25
TwistTube 2473 38-0/	38	26	38

Max diameter is defined as a nominal 90° sleeve overlap. A variety of application-based variables will dictate the appropriate sleeve size for use on each harness. Proper sleeve sizing is at the discretion of the end user.

A reduced overlap could be acceptable in certain applications allowing for a larger max diameter harness. Please consult your local sales representative for recommendations and guidance.



End view of TwistTube 2473 illustrating self-curling wrappable construction with nominal overlap.

Availability

Standard sizes are listed here. Additional sizes could be available upon request.

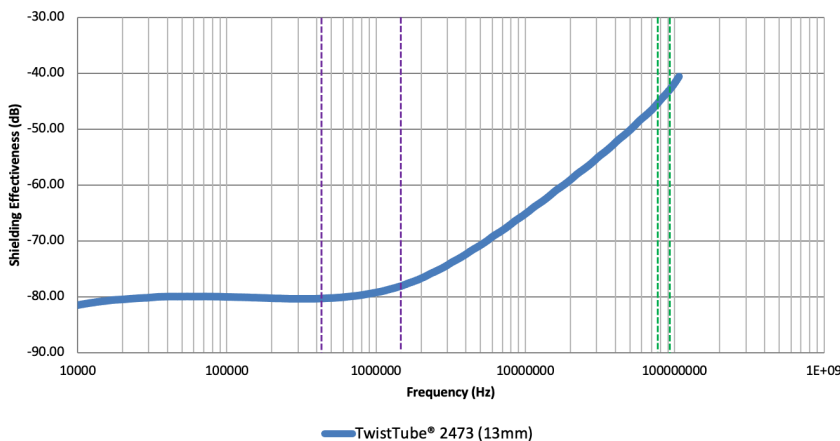
Available in spools and custom cut lengths. Recommended cut lengths are in 5mm increments. Please see regional drawings for cut length tolerances.

Standard color is black. Additional colors are available.

Please consult your local sales representative for regional packaging details and standards.

TwistTool is available as an installation aid for sizes 5, 8 and 13 mm.

Typical Shielding Effectiveness (IEC 62153-4-3)



United States: (1) 800 926 2472 • México: (52) 442 101 8100 • Brazil: (55) 19 3116 1600

EMEA: (33) 3 44 39 06 06 • Japan: (81) 45 330 0300 • China: (86) 21 6182 7560

Southeast Asia: (66) 35 276 400 • Korea: (82) 44 861 6368 • India: (91) 124 4784565

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