

## Product Highlights

- Operating temperature up to +150°C (+302°F)
- Provides electromagnetic shielding
- Self-wrapping design
- Stable woven construction
- Dual drain wire

## Typical Applications

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



**TwistTube® 2473D** is a self-wrapping sleeve designed to provide >40dB of 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 for specific product lengths.

TwistTube 2473D is endowed with a dual drain wire inside the sleeve. They make the ground connection easy and fast. TwistTube 2473D can be delivered with the drain wire pulled out or not and with or without an additional lug.

Unlike foils and films, TwistTube 2473D is durable and tear resistant, enabling it to provide long term protection. The product is engineered to reduce installation time, accommodate breakouts and can be installed over completed assemblies. TwistTube 2473D's stable woven construction eliminates performance variances commonly exhibited in traditional wire braids when used over varying harness thicknesses or when exposed to the stresses of pressure washing and extended handling.



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

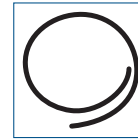
# Performance Data – TwistTube® 2473D

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%
Flammability	FMVSS 302 D45 1333	Pass Self extinguishing - Type B
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

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 2473D 5-0/	5	1	5
TwistTube 2473D 8-0/	8	6	8
TwistTube 2473D 10-0/	10	9	10
TwistTube 2473D 13-0/	13	11	13
TwistTube 2473D 16-0/	16	14	16
TwistTube 2473D 19-0/	19	17	19
TwistTube 2473D 25-0/	25	20	25
TwistTube 2473D 38-0/	38	26	38



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

## Availability

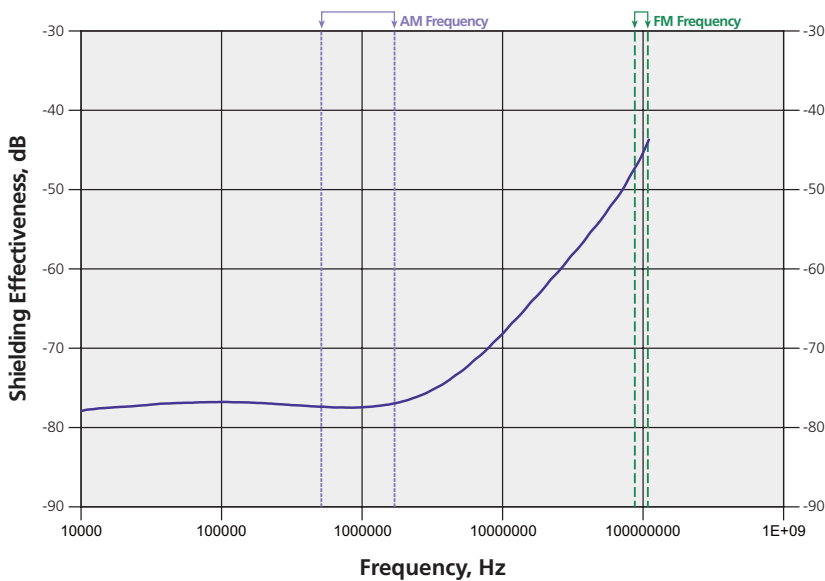
TwistTube 2473D is available in sizes 5 mm to 38 mm. Standard color is black.

TwistTube 2473D is available in cut lengths to the following specifications: Recommended standard cut length is in 5 mm increments.

TwistTube 2473D is available in 2 versions, D and D1 with different drain diameters.

Commercial Part Number	Drain size AWG (mm <sup>2</sup> )	Diameter in (mm)
TwistTube 2473D	AWG22 (0.326)	0.025 (0.644)
TwistTube 2473D1	AWG20 (0.518)	0.032 (0.812)

## Typical Attenuation per IEC 62153-4-4 (Size 10mm)



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