



## Braided Sleeve for Wiring harness

### FR20-E Expandable Braided Sleeve

#### Introduction

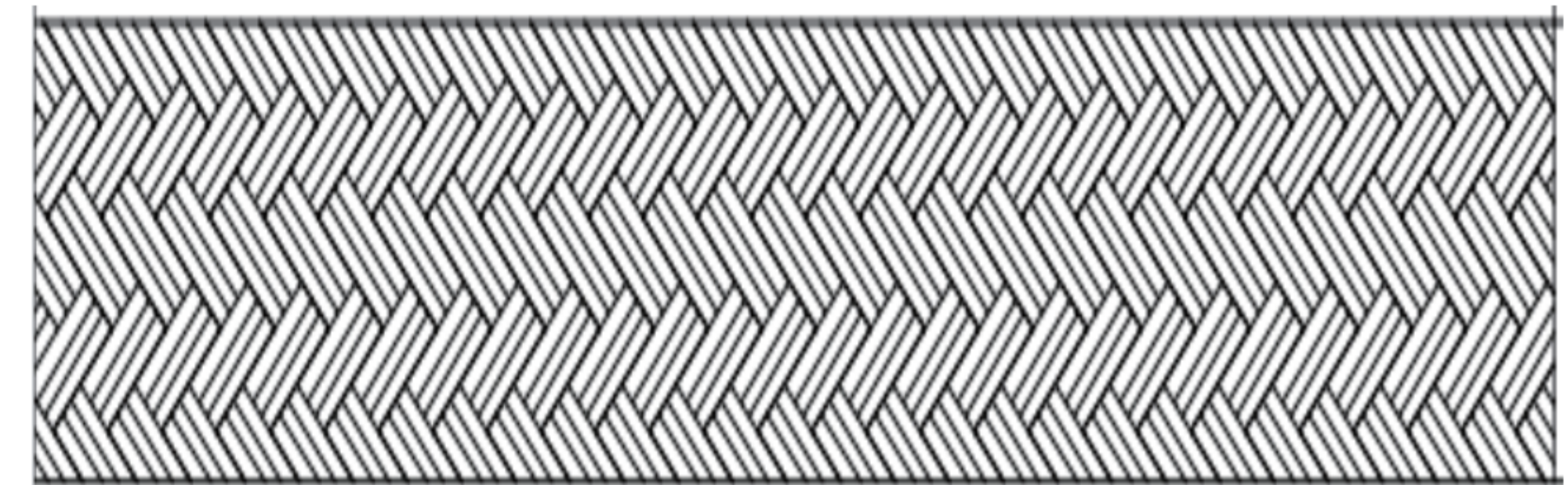
Made of PET polyester monofilament, this product features excellent abrasion resistance, corrosion resistance, and flexibility. It is halogen-free flame retardant, and its unique woven structure allows for expandability and scalability, suitable for wrapping wire harnesses and fluid pipelines. It can smoothly pass through large or irregularly shaped components, with liquid flow in and out without accumulation due to its mesh structure. Widely used in military, automotive, aerospace, and new energy industries for protecting components such as wire harnesses, hoses, and pipes

#### Features

- Operating temperature: -50°C~150°C
- Flammability: FMVSS302
- Halogen-free, RoHS compliant
- Standard color: Black , Orange
- Smooth laser or hot knife cutting

#### Dimensions

Part No.	Flattening width		Expandable Range(mm)	
	inch	mm	Min.(I)	Max.(O)
FR20-E-003	1/8"	3	1	6
FR20-E-006	1/4"	6	3	9
FR20-E-008	5/16"	8	5	12
FR20-E-010	3/8"	10	7	17
FR20-E-012	1/2"	12	8	20
FR20-E-014	9/16"	14	9	24
FR20-E-016	5/8"	16	10	27
FR20-E-019	3/4"	19	14	30
FR20-E-025	1"	25	18	33
FR20-E-032	1-1/4"	32	20	50
FR20-E-038	1-1/2"	38	30	60
FR20-E-045	1-3/4"	45	35	75
FR20-E-050	2"	50	40	80
FR20-E-064	2-1/2"	64	45	105
FR20-E-076	3"	76	64	120



#### Notes

- 1: Flattening width refers to the flat width of the braided sleeve in its natural state
- 2: Expandable Braided Sleeve has the function of expansion and shrink, and the tolerance of flattening width is large
- 3: Special packaging or color optional
- 4: For detailed product parameters, please refer to the product specification

#### Technical Data

Property	Test Method	Requirement
Melting point	ASTM D276	240°C~265°C
Fluid resistance	1h immersion at 23°C	Visual check, No deformation or dissolution on the surface
Heat Aging	150°C/240h	After testing, bend the sample around a tube that is 4 times the inner diameter of the product, no brittle cracks
Low-temperature flexibility	-50°C/4h	After testing, bend the sample around a tube that is 4 times the inner diameter of the product, no brittle cracks
Flammability	FMVSS302	100mm/min max.