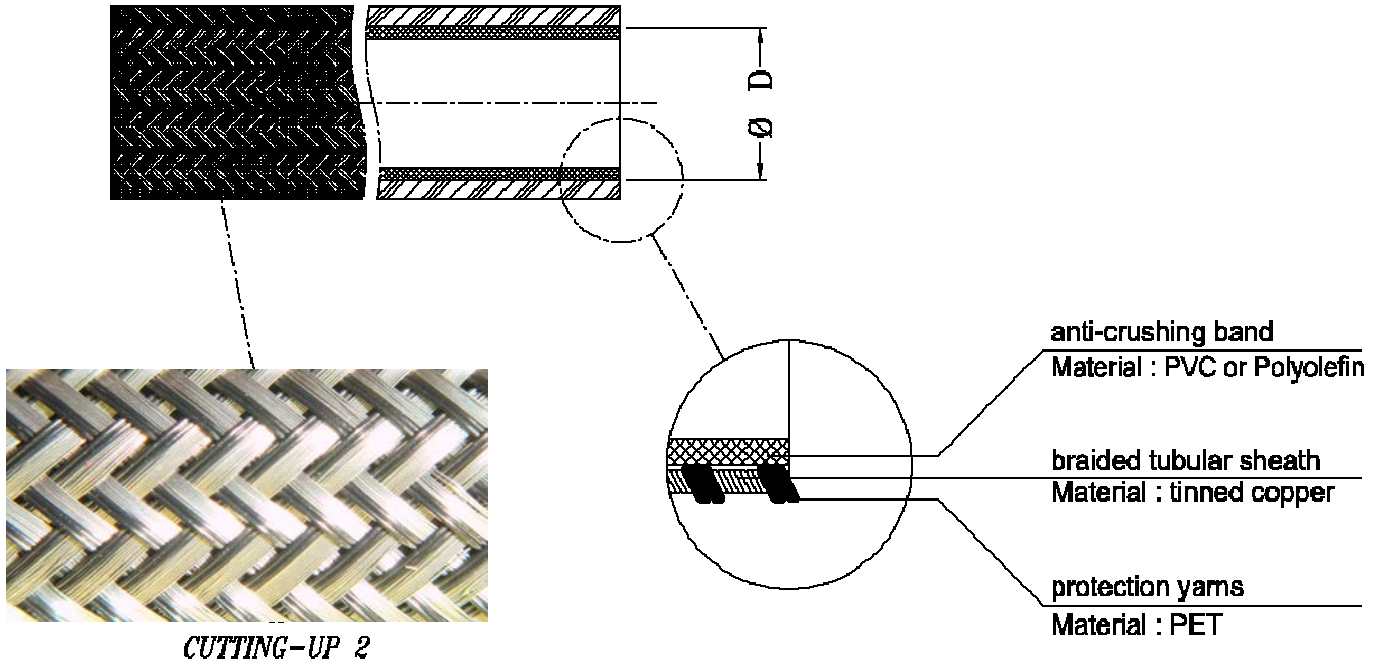


Electrical and thermal insulating sleeving

TISAFLEX-EMI-P
-40°C to +150°C

Braided tubular sheath of tinned copper mixed with saturated polyester monofilament yarns



CHARACTERISTICS

Electrical

Resistivity: refer to table below
 Shielding effectiveness [300Mhz; 1Ghz]
 according to IEC61000-4-21: 45 to 67dB

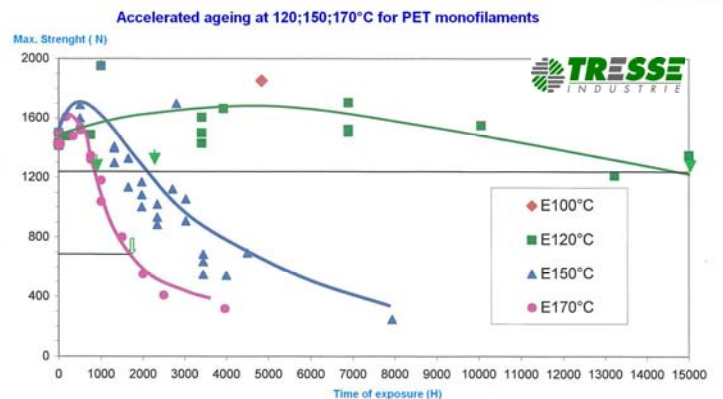
Construction

Braiding angle (on mandrel): 45°^{+/-3}

Physical-chemical

Continuous working temperatures:
 -40°C to +150°C
 Temperature for a short time +175°C
 Relative humidity acceptable: 60%
 Bending radius: 2x inner diameter
 Good resistance to usual automotive chemical atmospheres.
 Very good protection against abrasions, vibrations, impacts
 Very high flexibility
 Flammability: Self extinguishing **FMVS S302**,
 V < 100mm/min (for 1mm thickness)
 Tensile strength: under a stress of 100N the EMI, electrical and mechanical characteristics will not change¹.

Spindles composition		
	Conductive strands	Not conductive strands
number	8	2
Diameter	0.1mm +/- 0.01	0.254mm +/-0.01
material	Cu	Saturated heat treated Polyester
Finishing	Tinned grade A or B (NFC31-111)	Black



TISAFLEX-EMI-P

-40°C to +150°C

PRODUCTS

The sheath is braided on an easy removable polyolefin or polyvinyl-chloride tube.

PACKAGING

Drums

OPTIONS

Other inner diameters and stranding : consult us
sheaths supplied in cut lengths : consult us
UL 94V0: reference :EMI-PFR

HANDLING

No special conditions.

PATENT

European patent publication : Nr1348247

EMI REQUIREMENTS

Holes : 0.5mm (max. value)
Optical covering : about 95%
According to CISPR 25 : 10KHz to 1GHz
According to IEC61000-4-21 (table bellow)

APPLICATIONS

The cables are simply posted through the **TISAFLEX-EMI-P** which form a smooth fit to contours. A tighter fit on smaller cables can be obtained by stretching the **TISAFLEX-EMI-P** and securing with cable ties.

For effective shielding, both ends must be grounded and termination can be made by clip or ferrule.

Nominal value mm	INNER DIAMETER			Nominal wall thickness mm	Approx linear resistance mΩ/m	Shielding effectiveness Load 50Ω [300Mhz;1Ghz] ² dB	Approx. Linear weight (without tube) Kg/Km
	Diameter	Tolerance					
	min	max	mm				
4	4	6.5	+/-1	0.50	15.1	45 to 51	21.5
5	5	7	+/-1	0.50	12.7	50 to 51	27.0
6	5	10	+/- 1	0.50	11.3	55 to 62	28.5
8	8	11.5	+/- 1.5	0.50	9.0	52 to 57	26.5
10	8	13	+/- 1.5	0.50	7.8	63 to 67	43.5
12	10	15	+/- 2	0.50	6.5	58 to 65	48.0
14	12	18	+/- 2	0.50	5.4	45 to 47	58.0
16	14	20	+/- 2	0.50	4.6	56 to 62	72.5
18	16	22	+/- 3	0.50	4.2	NC	78.6
20	18	25	+/- 4	0.50	3.9	51 to 62	100

¹: EMI characteristics: It depends on the ratio of sheath filling because the braid is extensible and the braiding angle changes with the position of the sheath.

² According to IEC61000-4-21 Reverberation chamber test methods, all results and curves available on request.