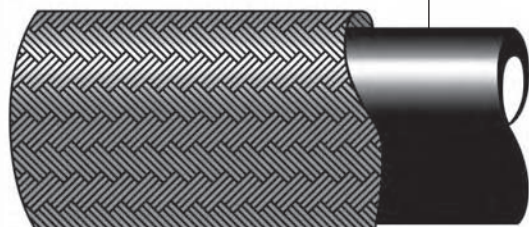




Removable PVC former

Outside Ø in mm



Sleeving Braid

Inside Ø in mm, tin or nickel plated copper as standard

#### STANDARD SLEEVING BRAID

Reference	Former O/D mm	Minimum Optical Coverage	Wire Ø mm	Usable Ø mm		Approx. Weight kg per 100m (ex-former)
				Min	Max	
MBS 3.0	3.0	90%	0.13	2.0	3.5	1.00
MBS 4.0	4.0	90%	0.13	3.0	5.0	1.45
MBS 5.0	5.0	90%	0.13	4.0	6.0	1.90
MBS 6.0	6.0	90%	0.13	5.0	7.0	2.20
MBS 10.0	10.0	90%	0.16	7.0	12.0	4.40
MBS 12.5	12.5	90%	0.16	11.0	13.0	4.80
MBS 15.0	15.0	90%	0.20	13.0	18.0	8.30
MBS 20.0	20.0	90%	0.13	17.0	23.0	10.00
MBS 25.0	25.0	90%	0.13	22.0	28.0	11.25
MBS 30.0	30.0	90%	0.16	27.0	36.0	19.30
MBS 95 3.0	3.0	95%	0.10	2.5	5.0	1.25
MBS 95 4.0	4.0	95%	0.13	3.5	7.5	2.20
MBS 95 6.0	6.0	95%	0.13	4.5	9.5	2.80
MBS 95 7.5	7.5	95%	0.13	7.0	14.0	4.40
MBS 95 10.0	10.0	95%	0.13	8.0	22.0	5.00
MBS 95 12.5	12.5	95%	0.13	11.0	24.0	7.50
MBS 95 20.0	20.0	95%	0.13	16.0	38.0	10.00
MBS 95 25.0	25.0	95%	0.13	22.0	38.0	11.25
MBS 95 30.0	30.0	95%	0.16	27.0	40.0	19.30
MBS 95 35.0	35.0	95%	0.16	30.0	50.0	20.00
MBS 95 40.0	40.0	95%	0.20	35.0	60.0	33.00
MBS 95 50.0	50.0	95%	0.30	45.0	65.0	35.00

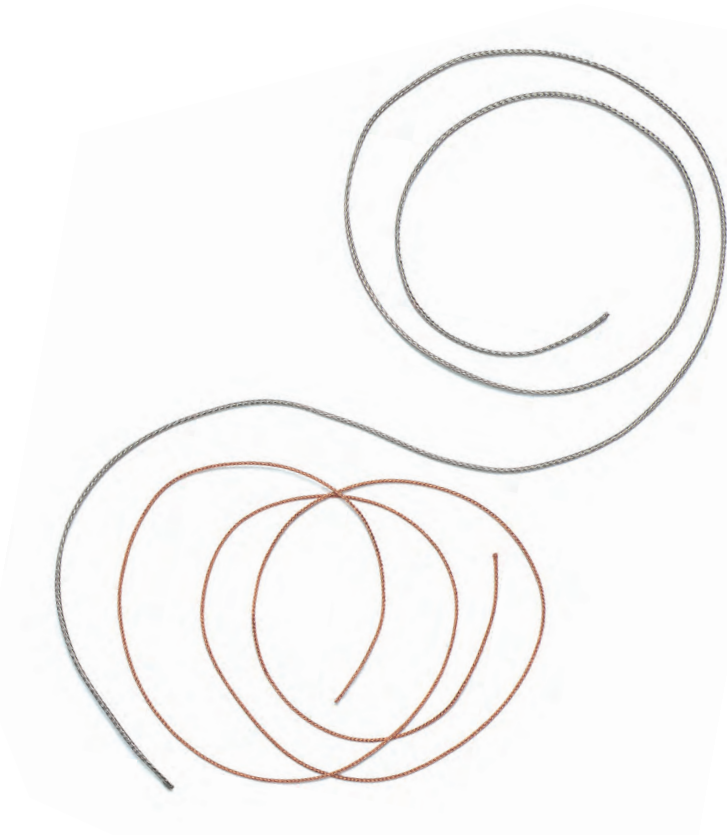
# Braided Strand & Fine Braid

## Braided Strand

Produced by overbraiding flexible copper strand. The outer braid prevents the strand from distorting when flexed and the tight bunching ensures maximum flexibility.

## Fine Braid

A special product manufactured from fine wire (0.071mm Ø) offers a high level of flexibility coupled with mechanical integrity and suitable for use where high vibration is likely to be encountered.



## Features

- Cross sectional areas from 1.00 mm<sup>2</sup> to 70.0mm<sup>2</sup>
- Current ratings from 3 to 300A
- Fine wire flexible product: Class 5 or 6 conductors
- Economical production of small quantities

## Choice of Materials

- Electro tin-plated copper
- Plain copper
- Alternative non-ferrous & ferrous materials on request

# Material Standards

The different wires listed under each **Mettex** product are the standard materials held in stock and normally used in the manufacture of those particular groups. For specialised applications, **Mettex** manufactures using materials such as aluminium, beryllium, phosphor bronze, brass & nickel alloys, silver plated copper and other high performance copper alloys.

Material standards will be appropriate for the task or according to customer requirements. Most products are made from tinned or plain copper wires conforming to BS EN 13602:2002. Nickel-plated copper wire is generally to ASTM B355, Stainless Steel wire is 304 or 316 Grade and Aluminium conforms to EN573-3. Wires diameters vary between 0.051mm and 0.4mm according to the degree of flexibility required.

Options exist to conduct pull off and volt drop tests - typically Def Stan 59-71 / BSG 178, BS4759. We can also provide resistance and heat rise figures to verify the efficacy of our products.

## Definitions

### Cross Sectional Area

This is the sum of the cross sectional area of one wire end multiplied by the total number of wires in mm<sup>2</sup>.

### Flexibility

Generally, the smaller the wire diameter, the greater the degree of flexibility but each application can be influenced by a number of external factors such as vibration, frequency and pattern, shock loading, other cables present and method of tying down. Flexibility can be split into three categories:

Category	Wire ø mm
Highly Flexible	0.051 – 0.071
Very Flexible	0.10 – 0.16
Flexible	0.20 – 0.30

### Temperature Ratings

Current ratings are given as a guide only and are approximate values based on a 56°C rise above an ambient temperature of 20°C for bare conductors suspended horizontally in free, still air.

## GENERAL NOTE

The information contained in this brochure is subject to change without prior notice and is supplied in good faith. It is believed to be correct but it is a condition upon the persons reading it to satisfy themselves by their own determination as to the suitability of the product(s) for their purpose prior to use. **Mettex** make no representations or warranties either expressed or implied with respect to the information or the product to which the information refers.

# mettex



**Mettex Electric Company Limited, Beaumont Close, Beaumont Road Industrial Estate, Banbury, Oxon OX16 1TG, UK  
Tel: +44 (1295) 250826 Fax: +44 (1295) 268643 E-mail: [sales@mettex.com](mailto:sales@mettex.com)**