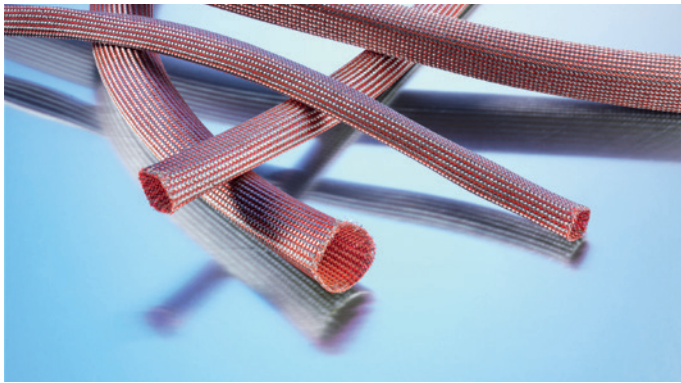


## TECHNICAL DATA SHEET

# PMA EMC - F.HY - Hybrid Screening Braid

Very flexible, lightweight

**PMA**



CE UK  
CA

### Applications:

- In ship building, railway construction and machine building
- For dynamic applications

### Features & Benefits:

- Very high flexibility
- Excellent abrasion and vibration resistance
- Does not fray
- Good fire safety characteristics
- Due to two component structure, mechanical and electrical functions are clearly separated
- Thanks to tube former for small sizes:
  - no fold up of braid
  - easier processing and installation

### Materials:

- Finest tin-plated copper wires mixed with polyester monofilament

### Compatible with:

- EMCFIX Pro, EMCFIX fittings

### Temperature range:

- -40°C ... +150°C continuous

### Conforms to:

- EN 45545-2 HL3 (R22 & R23)
- NFPA 130
- UL 94 V0

### Coverage:

- > 95%

### Typical screening values::

- 45 - 67 dB at 100 MHz

### Colour:

- Metal / Red

### Chemical properties:

- Please refer to [www.pma.ch](http://www.pma.ch) (Technical Information / Chemical Resistance)

### Environmental properties:

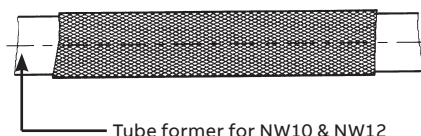
- Free from halogens and cadmium
- RoHS and REACH compliant

**Product selection:**

| Part no.  | Braid specification | Braid size | Cross section   | Range of application |           | Tolerance | Nominal wall thickness | approx. linear resistance | Weight   | Packing unit |
|-----------|---------------------|------------|-----------------|----------------------|-----------|-----------|------------------------|---------------------------|----------|--------------|
|           | numb. x Ø mm        | NW         | mm <sup>2</sup> | min. Ø mm            | max. Ø mm | mm        | mm                     | m Ω / m                   | kg/100 m | metre        |
| * F.HY.10 | 48 x 8 x 0.1        | 10         | 3.01            | 8.0                  | 13.0      | +/- 1.5   | 0.50                   | 7.80                      | 4.3      | 50           |
| * F.HY.12 | 56 x 8 x 0.1        | 12         | 3.52            | 10.0                 | 15.0      | +/- 2.0   | 0.50                   | 6.50                      | 4.5      | 50           |
| F.HY.15   | 68 x 10 x 0.1       | 15         | 5.34            | 12.0                 | 18.0      | +/- 3.0   | 0.50                   | 4.55                      | 6.8      | 50           |
| F.HY.20   | 72 x 10 x 0.1       | 20         | 5.65            | 19.0                 | 27.0      | +/- 4.0   | 0.50                   | 4.30                      | 7.2      | 50           |
| F.HY.35   | 120 x 10 x 0.1      | 35         | 9.42            | 30.0                 | 40.0      | +/- 4.0   | 0.50                   | 2.60                      | 12.0     | 50           |
| F.HY.40   | 120 x 16 x 0.1      | 40         | 15.08           | 30.0                 | 50.0      | +/- 4.0   | 0.65                   | 1.70                      | 17.0     | 50           |

\* with tube former / auf Trägerschlauch

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time



| Thermal properties:                | Value:         | Test parameters: | Test method: |
|------------------------------------|----------------|------------------|--------------|
| Continuous application temperature | -40 ... +150°C |                  |              |

If used with PMA fittings made from polyamide, please consider their operating temperatures

| Fire safety properties: | Value:                    | Test parameters: | Test method:                          |
|-------------------------|---------------------------|------------------|---------------------------------------|
| Flammability class      | V0                        |                  | UL 94                                 |
| Fire hazard level       | HL3                       |                  | EN 45545-2 (R22)                      |
| Oxygen index            | > 32 %                    |                  | EN ISO 4589-2                         |
| Smoke density           | < 150 Ds max.             |                  | EN ISO 5659-2 (25 kW/m <sup>2</sup> ) |
| Toxicity                | < 0.75 CIT <sub>NLP</sub> |                  | NF X 70-100-1/-2: (600°C)             |
| Fire hazard level       | HL3                       |                  | EN 45545-2 (R23)                      |
| Oxygen index            | > 32 %                    |                  | EN ISO 4589-2                         |
| Smoke density           | < 300 Ds max.             |                  | EN ISO 5659-2 (25 kW/m <sup>2</sup> ) |
| Toxicity                | < 1.5 CIT <sub>NLP</sub>  |                  | NF X 70-100-1/-2: (600°C)             |
| Fire performance:       |                           |                  | NFPA 130                              |
| - Flammability          | compliant                 |                  | ASTM E 162                            |
| - Smoke density         | compliant                 |                  | ASTM E 662                            |
| Smoke emission toxicity | compliant                 |                  | Bombardier SMP 800-C                  |

**Content of delivery:**

- Braid

**Assembly instructions:**

- Tube former should be removed for final application

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