

## PCN

PCN is a flame retardant polyester expandable braided jacket available in a range of 7 high density colours and sizes from 3mm up to 50mm as standard and can be [cut](#) as required. It is used in various industries and home projects for wire and cable organisation and protection as well as branding, identification and colour coding.

This expandable braided sleeve is a lightweight, easy to apply covering that doesn't trap heat or moisture, and can improve overall airflow to increase cooling capabilities of components. It is manufactured from a thicker 0.25mm PET monofilaments allowing for a vibrancy of colour and the fact that it readily expands makes installation efficient even over large diameter transitions and around bends. It also means fewer sizes fit a greater number of applications. Once installed, PCN retracts resulting in a smooth, close fitting sleeve. Popular applications include in the manufacture of audio and other leads/cables, modding and lighting components as well as more standard industrial applications. Other grades of coloured PET braid are available on enquiry.



## Technical Data

- **Operating Temperature** -50°C-+ 150°C
- **Flame Retardant:** Yes
- **Colours:** Red, yellow, white, Blue, Green, Orange, Violet, Other colours available upon request
- **Sizes:** 3mm ? 50mm
- **Packing:** Reels, mini-reels, mini-packs, cut to length, cut sleeves
- **Approvals:** UL approved, RoHS Compliant
- **Applications / Industries:** General, Commercial, Electrical, Electronics, Industrial, Mechanical, Automotive

| Properties                  | Typical Values               | Test Methods                |
|-----------------------------|------------------------------|-----------------------------|
| General                     |                              |                             |
| Operating Temperature       | -50°C – + 150°C              |                             |
| Short-term peak temperature | Up to 175°C                  |                             |
| Melt temperature            | 240°C                        |                             |
| Monofilament thickness      | 0.25mm                       |                             |
| Thermal                     |                              |                             |
| Flammability                | Self -extinguishing, V-2     | FMVSS 302, UL94 on compound |
| Chemical                    |                              |                             |
| Chemical resistance         | Unaffected by most chemicals | D47 1924                    |
| Toxicity                    | Halogen free                 |                             |
| Opacity                     | Low smoke density            |                             |

| Size (mm) | Supplied diameter (mm) | Application range (mm) |
|-----------|------------------------|------------------------|
| 3         | 3.0                    | 1 – 6                  |
| 6         | 6.0                    | 3 – 9                  |
| 8         | 8.0                    | 5 – 12                 |
| 10        | 10.0                   | 7 – 17                 |
| 12        | 12.0                   | 8 – 20                 |
| 15        | 15.0                   | 10 – 27                |
| 20        | 20.0                   | 14 – 30                |
| 25        | 25.0                   | 18 – 33                |
| 30        | 30.0                   | 20 – 50                |
| 35        | 35.0                   | 25 – 55                |
| 40        | 40.0                   | 30 – 60                |
| 45        | 45.0                   | 35 – 75                |
| 50        | 50.0                   | 40 – 80                |

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