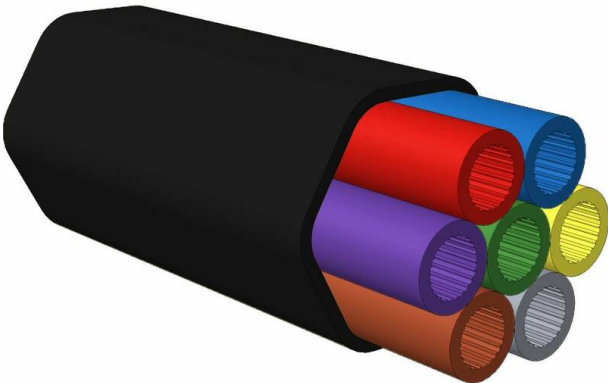


Excel Enbeam 7 Way External 5/3.5 mm Blowing
Tube Black

Item Code: 208-802



- ✕ Duct-installable
- ✕ HDPE sheath
- ✕ Available up to 24x 5 mm bundles
- ✕ Crush and impact resistant
- ✕ RoHS compliant
- ✕ 25 Year system warranty
- ✕ CIBSE TM65 Embodied Carbon: 0.478 kg CO2e

Product Overview

Enbeam external blowing tubes have been designed to allow blown fibre to be distributed externally and within ducts. The external grade tubes are over-sheathed with High Density Polyethylene (HDPE). The tubes have a low friction inner coating to reduce drag & maximise blowing distances.

The compact tubes can accommodate Excel fibre units containing from 2 to 12 fibres and are colour-coded for identification.

The tubes are easy to terminate and branch-off using suitable Excel connection closures and push-fit connectors.

The tubes are supplied on disposable wooden drums and capped at both ends to prevent ingress of moisture or contamination.

Product Specifications

| Feature | Values |
|---------------------|---------|
| Suitable for | Outdoor |
| Outer sheath colour | Black |

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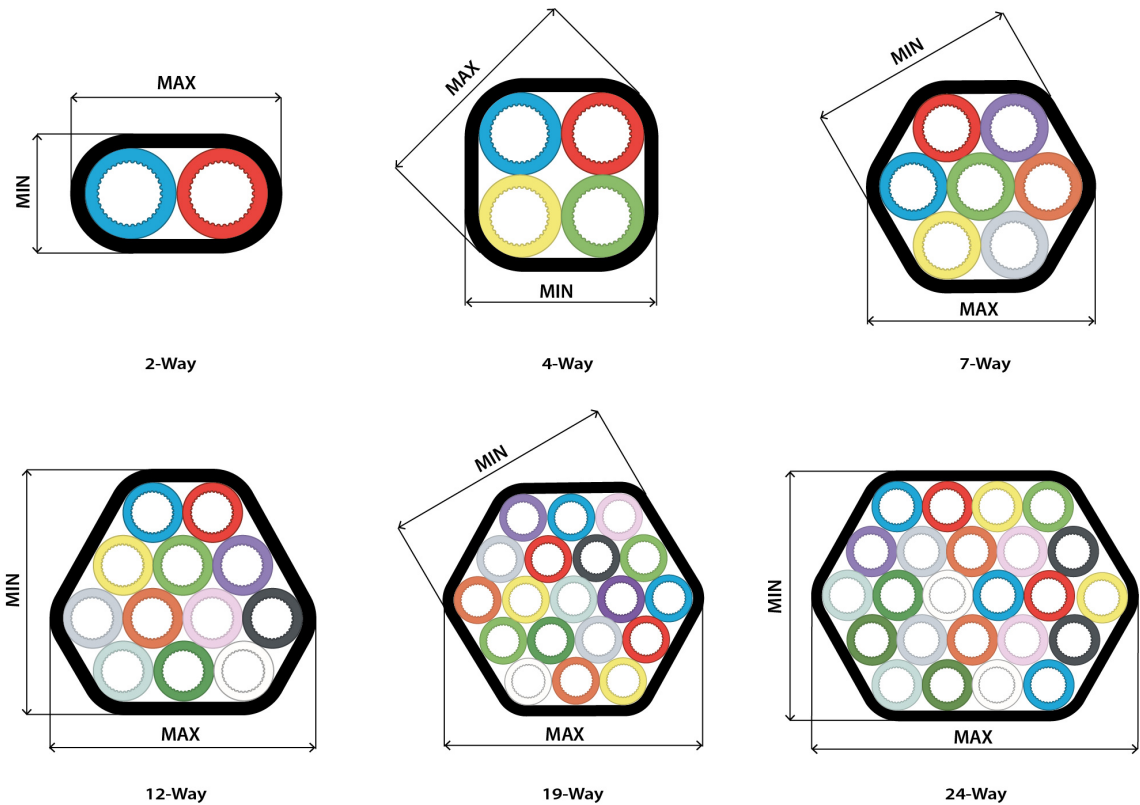
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Additional specifications

| Features | Values |
|--|----------------|
| Transport and storage temperature range | -40°C to +70°C |
| Installation temperature range | -10°C to +50°C |
| Operating temperature range | -40°C to +70°C |
| Outdoor exposure limit in Central Europe | max. 12 months |

Product drawing



Additional specifications

| Features | 2x5/3.5 | 4x5/3.5 | 7x5/3.5 | 12x5/3.5 | 19x5/3.5 | 24x5/3.5 |
|-----------------------|---------|---------|---------|----------|----------|----------|
| MAX (mm) | 11.5 | 13.6 | 16.5 | 21.5 | 26.5 | 31.5 |
| MIN (mm) | 6.5 | 11.5 | 15.5 | 20 | 24 | 24 |
| Sheath thickness (mm) | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |

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| | | | | | | |
|--------------------------------------|-------|-------|-------|--------|--------|--------|
| Installation tensile force, max | 270 N | 540 N | 945 N | 1620 N | 2565 N | 3240 N |
| Min. bending radius \perp MAX (mm) | 65 | 136 | 165 | 200 | 265 | 240 |
| Min. bending radius \perp MIN (mm) | 115 | 115 | N/A | N/A | N/A | 315 |
| Weight (kg/km) | 36 | 60 | 96 | 160 | 230 | 280 |

Standards

| Applicable standard | Detail |
|-------------------------------|---|
| EN ISO 291:2008 | Plastics – Standard atmospheres for conditioning and testing |
| EN ISO 2505:2005 | Thermoplastics pipes – Longitudinal reversion – Test method |
| ČSN 010254:1976 | Sampling inspection by attributes |
| EN ISO 1167-1:2006 | Thermoplastics pipes, fittings and assemblies for the conveyance of fluids – Determination of the resistance to internal pressure |
| EN 12201-1:2011 | Plastics piping systems for water supply, and for drainage and sewerage under pressure – PE |
| EN 12201-2:2011+A1:2013 | Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes |
| EN ISO 3127:2017 | Plastics piping and ducting systems – Thermoplastics pipes – Test method for resistance to external blows by the round-the-clock method |
| IEC 60 794-1-1:2015 | Optical fibre cables – Part 1-1: Generic specification – General |
| IEC 60 794-1-2:2017 | Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures – General guidance |
| IEC 60794-1-21:2015+AMD1:2020 | Optical fibre cables – Part 1-21: Generic specification – Basic optical cable test procedures – Mechanical tests methods |
| IEC 60 794-1-22:2017 | Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental tests |

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| | methods |
|---------------------------|---|
| IEC 60 794-1-23:2019 | Optical fibre cables – Part 1-23: Generic specification – Basic optical cable test procedures – Cable element test methods |
| EN IEC 60 794-1-24:2014 | Optical fibre cables – Part 1-24: Generic specification – Basic optical cable test procedures – Electrical test methods |
| IEC 60 794-2:2017 | Optical fibre cables – Part 2: Indoor cables – Sectional specification |
| ASTM D 1894-14 | Standard Test Method for Static and Kinetic Coefficient of Friction of Plastic Film and Sheeting |
| ASTM D2122-16 | Standard Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings |
| EN 13501-1:2018 | Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests |
| ISO 6259-1,2,3:1997-2015 | Thermoplastic pipes – Determination of tensile properties |
| ISO 3126:2005 | Plastics piping systems – Plastics components – Determination of dimensions |
| ISO 527-1:2019 | Plastics – determination of tensile properties – Part 1: General principles |
| ISO 1133-1:2011 | Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics |
| EN 61386-24:2010 | Conduit systems for cable management – Part 24: Particular requirements – Conduit systems buried underground. |
| ISO 1183-1:2019 | Plastics – Methods for determining the density of non-cellular plastics – Part 1: Immersion method, liquid pycnometer method and titration method |
| ISO 1183-2:2019 | Part 2: Density gradient column method |
| ISO 6964:2019 | Polyolefin pipes and fittings – Determination of carbon black content by calcination and pyrolysis – Test method |
| ISO 18553:2002+Amd 1:2007 | Method for the assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds |
| ISO 9969:2016 | Thermoplastics pipes – Determination of ring stiffness |
| EN ISO 13263:2017 | Thermoplastics piping systems for non-pressure underground drainage and sewerage – Thermoplastics fittings – Test method for impact strength |
| IEC 60304:1982 | Color code |
| ASTM D 1693:2015 | Standard Test Method for Environmental Stress Cracking of Ethylene Plastics |

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ISO 11357-6:2018

Plastics – Differential scanning calorimetry (DSC) – Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT)

ČSN EN ISO 899-2:2003/A1:2015

Plastics – Determination of creep behavior – Part 2: Flexural creep by three-point loading – Amendment 1

IEC 60 794-3-20:2016

Optical fibre cables – Part 3-20: Outdoor cables – Family specification for self-supporting aerial telecommunication cables

IEC 60794-4:2018

Optical fibre cables – Part 4: Sectional specification – Aerial optical cables along electrical power lines

IEC 60 794-5:2014

Optical fibre cables – Sectional specification – Microduct cabling for installation by blowing

RoHS-II/-III (2011/65/EU & 2015/863): 2023

Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III).

WFD: 2023

Compliant to Waste Framework Directive

SCIP: 2023

Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)

POPs (EU) No 2019/1021

EU Regulation for the restriction of Persistent Organic Pollutants.

Part Number Table

| Part Number | Description |
|-------------|--|
| 208-800 | Excel Enbeam 2 Way External 5/3.5 mm Blowing Tube Black |
| 208-801 | Excel Enbeam 4 Way External 5/3.5 mm Blowing Tube Black |
| 208-802 | Excel Enbeam 7 Way External 5/3.5 mm Blowing Tube Black |
| 208-803 | Excel Enbeam 12 Way External 5/3.5 mm Blowing Tube Black |
| 208-804 | Excel Enbeam 24 Way External 5/3.5 mm Blowing Tube Black |
| 208-828 | Excel Enbeam 19 Way External 5/3.5 mm Blowing Tube Black |

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

Contact us at sales@excel-networking.com



E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.