

A secure link starts with the selection and the specification of a reliable, high performance connection. Ridgemount Technologies has over 20 years experience designing and manufacturing fibre optic connectors for a variety of applications.

The Ridgemount BOMAN series offers Breakout Manifolds of various sizes accommodating different cable constructions and different fan-out tubes. They are ideal for use with both indoor and field deployable cables.

The range has been designed to ensure that a consistent fan-out product is manufactured with a simple assembly tooling, avoiding fibre failures due to twist and tension. The manifold body incorporates a connector crimp and compression gland to ensure secure cable retention.



Features

- Low profile; low weight manifold body
- Small size versus fibre count
- Suitable for 4mm to 9mm cables with fibre counts of 12F to 144F
- Standard pre-assembled manifold heads up to 2.1m

Benefits

- Durable anti-twist manifold body
- Quick & simple assembly procedure
- Wide choice of coloured break out tubes that use Ridgemount easy glide inner tubes
- Compatible with many connector interfaces
- Ideal for Simplex, Uni-boot & MPO fan-outs

BOMAN Series

Size 25: ≤ 144 fibres

Size 12: ≤ 24 fibres

Size 10: ≤ 12 fibres

Applications

- Controlled break out of fibres
- Hydra fibre optic assemblies
- CATV and Broadcast
- Data Centre SANs
- LAN Ethernet & Telecom Networks

BOMAN Manifold Kits



BOMAN Size 10

- Fibre Manifold Kit - Not including head
- Suitable for 3mm Cables
- Up to 12x 250um and 4x 900um fibres
- Miniflex 3mm Cable option
- Ideal for 12F MPO Fan-Out Assemblies
- Select BOMAN Fan-Out Head Colours

BOMAN Size 12

- Fibre Manifold Kit - Not including head
- Suitable for Internal and External Cables
- Compatible with 250u and 900u fibres
- Up to 24x 250um and 8x 900um fibres
- Suitable for 5mm Cable Crimp & Boot
- Miniflex 4mm Cable option
- Select BOMAN Fan-Out Head Colours



BOMAN Size 25

- Universal Fibre Manifold Kit - Separate Head
- Rugged Anti-Twist Design
- Cable Crimp and Compression Retention
- Suitable for Internal and External Cables
- Compatible with 250u and 900u fibres
- Operator friendly assembly
- Up to 144 fibres



Technical Specification

BOMAN Sets	Size 10 - 6000 Series	Size 12 - 7000 Series	Size 25 - 2000 / 3000
Part No: RMT Cables	250 6000 001J	250 7000 001J	250 2000 001J
Standards	IP54	IP54	IP68 [not including tubing]
Operating Temperature Range	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Diameter [Max]	10mm	12.6mm	25mm
Length - not including head	76mm	84mm	142mm
Connector Body	Nylon UL94-V0	Nylon UL94-V0	Polyamide & Acetyl UL94-V0
Connector Crimp	Nickel Plated Brass / Al	Nickel Plated Brass / Al	Stainless Steel
Fibres Sizes	≤ 12x 250µm	≤ 12x 250µm	250µm, 600µm or 900µm
Cables Sizes	3mm	4mm	4mm to 9mm
Cable Retention	> 100N	> 100N	> 100N
Fan-Out Tube Retention	90N	90N	> 90N
Crush Resistance	> 300N N/cm	> 300N N/cm	> 300N N/cm
Breakout Tube Options	1.7mm Fan-Outs	1.7mm / 2.4mm Fan-Outs	2.0, 2.4, 3.0mm Fan-Outs
Capacity [Max]	12 Fibres	24 Fibres	24 (1F) / 36 (2F) / 144 (12F)

BOMAN Manifold Heads



Select the Manifold Head to go with the Manifold Set required for your cable. You have the choice of tube diameter, colour and length to suit your application.

The **BOMAN Size 10 & 12** have been designed for use with our smallest breakout tube, 1.7mm OD. This tube incorporates our easy glide inner tube technology allowing 250u fibres to be fed up to 3m in length.

BOMAN Size 10	Tube Ø 1.7mm	Tube Ø 2.4mm
Fibres	1x 250µm	1x 900µm (2x 250µm)
4	250 6044 xxxA	250 6043 xxxA
8	250 6084 xxxA	250 6124 xxxA
12	250 6124 xxxA	250 6123 xxxA
Length (xxx)	006 = 0.5m; 011 = 1.0m 016 = 1.5m; 021 = 2.0m	006 = 0.5m; 011 = 1.0m 016 = 1.5m; 021 = 2.0m

BOMAN Size 12	Tube Ø 1.7mm	Tube Ø 2.4mm
Fibres	1x 250µm	1x 900µm (2x 250µm)
12	250 7124 xxxA	250 7063 xxxA
16	250 7164 xxxA	250 7083 xxxA
24	250 7244 xxxA	NA
Length (xxx)	006 = 0.5m; 011 = 1.0m 016 = 1.5m; 021 = 2.0m	006 = 0.5m; 011 = 1.0m 016 = 1.5m; 021 = 2.0m



The colour of the breakout tubes in the standard range is designed to signify the fibre type being used.

- Blue - Singlemode G657
- Yellow - Singlemode G652d
- Grey - Multimode 62.5/125
- Orange - Multimode 50/125 OM2
- Aqua - Multimode 50/125 OM3
- Heather Violet - Multimode OM4

All heads are manufactured to exacting standards to ensure that the fibre feed is as simple as possible. The tubes offer excellent protection to individual fibres with the compression and tension characteristics of standard fibre optic cables.

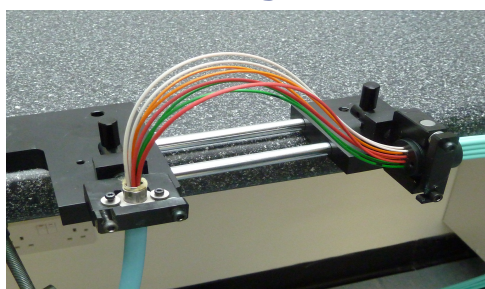
BOMAN Size 25 Manifold Heads

With the BOMAN Size 25 you have a real choice of three sizes of breakout tubes.

- 2.0mm breakout tubes for up to 24x 250u fibres.
- 2.4mm breakout tubes for use with 1x 900um fibre or 2x 250um fibres for use with Uni-boot Connectors.
- 3.0mm tubes for use with 12x 250u fibres per tube ideal for MPO [MTP] Connectors

BOMAN Size 25	2000 Series Tube Ø 2.0mm	2000 Series Tube Ø 2.4mm	BOMAN Size 25-3	3000 Series Tube Ø 23.0mm
Max Fibres per Tube	1x 250µm	1x 900µm (2x 250µm)	Max Fibres per Tube	12x 250µm
4 Tubes	250 2042 xxxA	250 2083 xxxA	4 Tubes - 24F	250 3023 xxxA
8 Tubes	250 2082 xxxA	251 2163 xxxA	8 Tubes - 48F	250 3043 xxxA
12 Tubes	250 2122 xxxA	251 2243 xxxA	12 Tubes - 72F	250 3063 xxxA
16 Tubes	250 2162 xxxA	251 2363 xxxA	16 Tubes - 96F	250 3083 xxxA
24 Tubes	250 2242 xxxA	NA	24 Tubes - 144F	250 3123 xxxA
Length (xxx)	006 = 0.5m; 011 = 1.0m 016 = 1.5m; 021 = 2.0m	006 = 0.5m; 011 = 1.0m 016 = 1.5m; 021 = 2.0m	Length (xxx)	006 = 0.5m; 011 = 1.0m 016 = 1.5m; 021 = 2.0m

BOMAN Tooling



BOMAN Tool	250 9000 0008	251 9000 0001
Fibres	Size 10 & 12 BOMAN	Size 25 BOMAN

Each BOMAN series has assembly tooling that enables quick and easy production assembly of the manifold sets and heads. The design of the tooling ensures consistency between operators and prevents any twisting of the fibres as the manifolds are closed up. This ensures that the manifold contributes zero Insertion loss to the assembly. The crimp, secure on the cable, is held firm allowing the individual fibres to be fed into the breakout tubes of the manifold head. The two parts are then brought together and fixed under controlled conditions. The tool acts as an extra pair of hands for the operator to ensure a repeatable and secure assembly.

BOMAN Pull Socks

The Ridgemount BreakOut Manifold can be protected during installation using the BOMAN Pull-Sock. The Pull-Sock tube is fed over the connector assembly, clamped onto the manifold using cable ties. Any pull force is transferred from the pull sock to the back of the manifold and directly onto the cable via a combination of the crimp and the compression gland. After installation the ties are simply cut allowing the sock to be retained for future use.

BOMAN Pull Sock	TBA	TBA	250 2800 010J
IP54	Size 10	Size 12	Size 25
Outer / Inner Diameter	TBC	TBC	35mm / 28mm
Material - Body & Tube	Polyamide & Acetyl UL94-V0	Polyamide & Acetyl UL94-V0	Polyamide & Acetyl UL94-V0
Length (Custom lengths as required)	1.2m	1.2m	1.2m
Crush Resistance / Cable Retention	> 100N	> 100N	> 100N