Above Ground Optical Fibre Enclosure

Standard Fibre Enclosure

Composite Fibre Enclosure

Description:

Rider Comms have specifically designed and value engineered an Optical Fibre Termination Box designated OFTB24/120 to manage and splice incoming and outgoing non armoured, armoured, composite copper / and optical fibre cables for communication applications on our highways. This bespoke compact splicing closure is jointer friendly and requires no special tooling for installation. Prysmian manufactures the fibre management system housed within the enclosure. The incoming and outgoing fibre tubes are over sleeved with a 5mm transport tube. The transport tubes are managed using a manifold which routes the tubes to either the left or right hand side of the loose tube fibre holder. The individual fibres then can be broken out and routed to any of the five splicing trays. The fibre trays are individually hinged and when opened causes no interference to any other tray or fibre circuit. Each splicing tray can accommodate up to 12 heat shrinkable splice protectors. The splicing trays have a 30mm bend radius control at any point and can accommodate up to 2 metres of fibre storage, which can facilitate up to 10 re-terminations. The Optical Fibre Enclosure can also be customised to accommodate composite fibre / copper applications, armoured and non armoured. Wago terminal blocks manages the copper pair terminations for both the A and B sides. When ordering the enclosure for the composite cable installations it is important to reference the correct part number as described in the ordering information detailed within this product data sheet.

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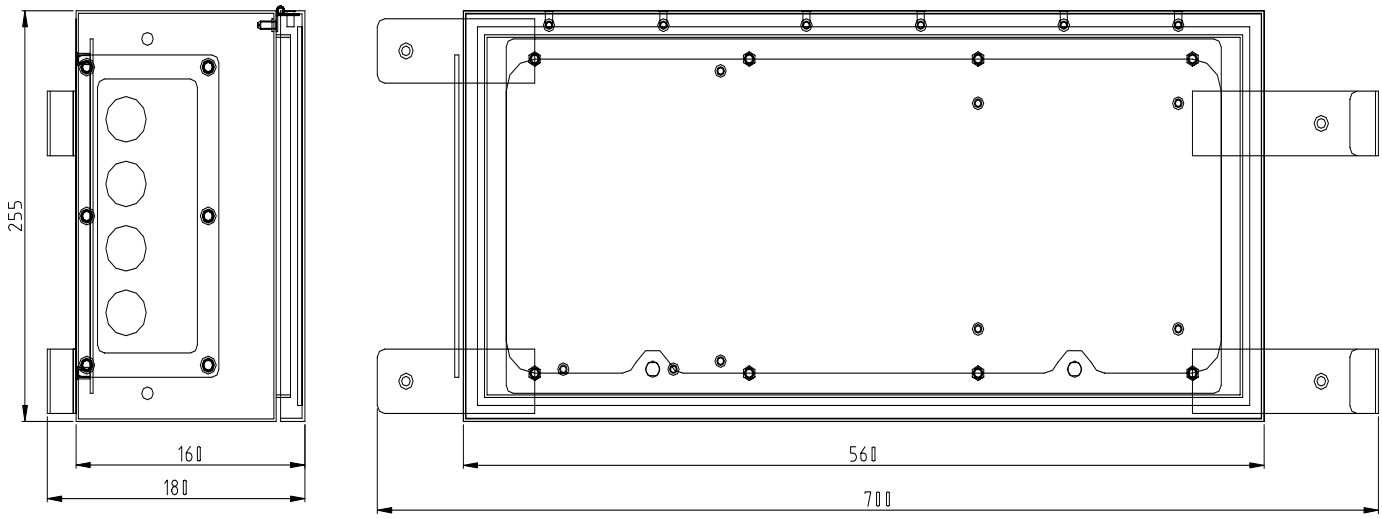
GLOBAL ISO 9001 : 2000 UKAS QUALITY MANAGEMENT 039
Cert No. 023100

Benefits & Features

- The joint provides a method of through splicing the longitudinal cables on the transmission side of the joint, with splice through connections to local equipment using 24 fibre cable via the local side of the joint.
- The joint utilises splice cassette facilities for location fibre manifolds on the splice cassette support assembly.
- Blanking plugs are fitted to the enclosure to facilitate right / left conduits to couple A and B side composite enclosures.
- Customised gland plates are available to manage all cable configurations.
- No drilling on site required.
- Manifolds route the individual fibres to any splicing cassette.
- Fibre storage holder accommodates up to 2 metres of fibre.
- The joints are capable of being fitted with the transmission side only or both transmission and local.
- The joint and all components are suitable for operational wave lengths up to and including 1625nm, 1550nm & 1310nm.
- Above ground installation providing safer working practise.
- Compact design, easily accessed within the 609 cabinet.
- New design replaces two termination boxes A/B side.
- Fibre management; No loose tube requirement over the fibre elements.
- Jointer friendly, easy and quick to install providing a cost effective solution.
- Reduced manpower resources for both the installation and fault finding practices. When compared to underground installations.
- The management and splicing system is expandable up to 120 fibres which is suitable for all motorway applications including Active Traffic Management (ATM), the M42 trial for which a 96 fibre, Optical Fibre cable was installed.
- The Minimum bend radius never exceeds 30mm

Dimensions



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Test Requirements

Environmental

Enclosure: Dust tight and offers complete protection against contact. The enclosure will also withstand powerful water jets blasting from all angles.
Rating IP66 rated to EN60 529/10.91 specification.
Cable glands: Rated to IP68 designed to meet EN50626:1999 integral claw design prevents cable twisting during installation and the sealing rings are moulded into the body of the glands to increase performance.
Note: This enclosure is housed within roadside cabinet furniture and therefore this high level of protection is more than adequate to satisfy this environment and the application.

Torsion

With the enclosure clamped rigidly each of the cables are in turn clamped 0.5M from the end of the closure to a ratchet assembly. The cable is then placed under torsion by moving the ratchet through 40°. This is held for 5 minutes. The cable is restored to its normal position before being placed in torsion in the opposite direction using the same method.
The procedure is then repeated for the other cables.

Result - Passed

Static Bend

With the enclosure held rigidly the largest cable is subjected to 30° of flexure to a radius equal to 12 x diameter of that cable applied in the horizontal plane and held for 30 minutes without loss of pressure.
The cable is then returned to its normal position and flexed again as described above in the opposite direction.

Result - Passed

Vibration

Testing shall be in accordance with IEC 60068-2-6 Test Fc.
The enclosure shall be mounted on a vibration apparatus with the cable rigidly clamped at a distance of 250mm from each end of the enclosure.
The centre point of the enclosure shall be subjected to a sinusoidal vibration with a frequency of 10Hz and an amplitude of 0.35mm (0.7mm peak to peak) for a period of 14 days.
Result. OFTB24 will satisfy these test criteria.

Test results available on request

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Ordering

Part Number	Description
RCL 90/1100/60F	Above Ground Optical Enclosure Non Armoured Applications up to 60 fibre capacity
RCL/1100/120F	Above Ground Optical Enclosure Non Armoured Applications up to 120 fibre capacity
RCL91/1348	Gland plate assembly non-armoured application 4-0ff glands and gaskets
RCL 90/1100MC	Above Ground Closure A Side for Armoured Composite cable Copper / Fibre
RCL 90/1190	Above Ground Closure B Side for Armoured Composite Cable Fibre / Copper
RCL/91/1444/2	Gland Plate Assembly 2 x CW40 for SWA and gasket
RCL91/1444/1	Gland plate assembly 1 x CW40 for SWA 1 x blank plug and gasket
RCL91/1447	Gland plate assembly 1 x CW40 for SWA ,1 x gland for non armoured fibre 1 x gland for non armoured 10 pr copper

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