



Ordering information

Polaris-box 6 assortment

Description

Polaris-box 6 is the name of the new box generation from R&M for FO termination both indoors and outdoors. It extends the R&M FTTH solutions in the single and multi-dwelling unit segment. The Polaris-box 6 sees itself as a talented all-rounder. It can be used in all kinds of premises from a single dwelling unit, such as a family home, to building complexes. It's usable from the building entry point through risers and floor distributors to the optical termination outlet. The fiber management element supports patch, slice and splitter configurations as well as individual assembly. All typical FTTH topologies are feasible. In the standard basic version the Polaris-box 6 has space for twelve splice connections and six or twelve patch connections. The equipment can be extended with four FMTS (Fiber Management Tray System) 1TPU splice trays or two 2TPU splitter trays. When fully assembled, the platform terminates 60 splice and 12 plug connections. The box is retrofittable in all ways. With the integrated housing seal, the Polaris-box 6 fulfills the requirements of protection class IP67. The cable seals fulfill IP65 requirements. A unique feature is the two-part, modular seal solution with slit elements for cable entries.

| Product code | Splice capacity ⁽¹⁾ | TPU ⁽¹⁾ | Connection capacity | Cable entries | Ø Cable | Ordering Number |
|--------------------------------|--|--------------------|-------------------------|---|--|--------------------------------------|
| Polaris-box 6 | 12 (Standard) | 4x1TPU 2x2TPU | 6 x LC-D, SC, E-2000 | Below = 4 Top = 2 Side = 2 Knock-out able cable entries | Main cable 1x Ø 3-13mm Drop cable 12x Ø 2-3mm | R820281 R820282 |
| Polaris-box 6 with lock | With additional FMT trays up to max. 60 splice connections | | | | | |

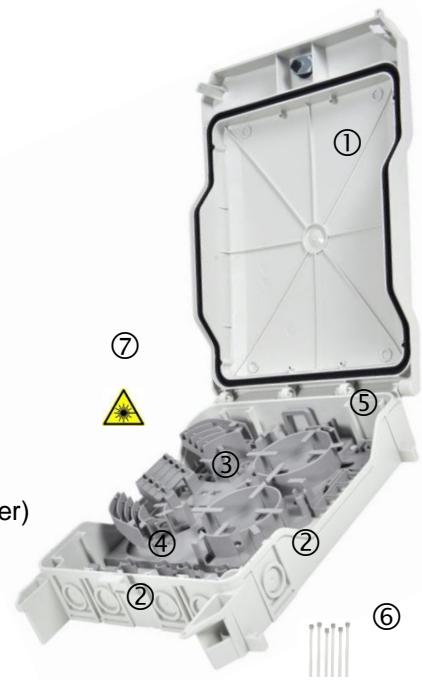
(1) TPU: Tray Position Units correspond to the number of tray fixing possibilities.

Polaris-box 6











Scope of Delivery

1. Polaris-box 6 (housing)
 - a. with lock
 - b. without lock
2. Cable entry's knock out solution
 - a. 4 below
 - b. 2 above
 - c. 2 side
3. Fiber management
 - a. 1 position for 12-fiber splice holder
 - b. 1 Splitter fixation position
 - c. 2 fibers storage
 - d. Fixation solution for 4 x 1TPU Splice trays
 - e. Integrated adapter field for up to 6 SC, LC-D, E-2000
4. Cable strain relive below/side
 - a. 4 strain relive for cables and tubes
 - b. 2 strain relive position for 4 x CM (central strain member)
 - c. 4 strain relive for cable yarn
 - d. 2 strain relive for cable from the side
5. Cable strain relive top
 - a. 2 strain relive for cables and tubes
 - b. 1 strain relive for cable yarn
6. 10 cable ties, small
7. Laser sign, small
8. Installation manual



Assortment overview



| Polaris Cable sealing elements description | Pictures | IP below | IP top | IP side | amount cables Ø 2-3mm | amount cables Ø 3-9mm | amount cables Ø 9-13mm |
|---|---|---------------------|-------------------|--------------------|--|--|---|
| Cable entry IP65 (housing) Modular Sealing element 1 x Ø 3mm-9mm 1 x Ø 9mm-13mm |  | IP65 | IP65 | IP65 | - - | 1 - | - 1 |
| Cable entry IP65 (housing) Modular Sealing element 3-layers 12 x Ø 2mm-3mm |  | IP65 | IP65 | IP65 | 12 | - | - |
| Cable entry IP54 Basic Sealing element 1-layer (step solution) 1 x Ø 3mm-13mm |  | IP54 | IP54 | IP54 | - | 1 | 1 |
| Cable entry IP54 Basic Sealing element 3-layers 12 x Ø 2mm-2.8mm |  | IP54 | IP54 | IP54 | 12 | - | - |
| Cable entry IP54 Basic Sealing element 1-layer 8 x Ø 5mm |  | IP54 | IP54 | IP54 | - | 8 | - |
| Cable entry IP54 Basic Sealing element 2-layers 3 x Ø 7mm 4 x Ø 2mm-2.7mm |  | IP54 | IP54 | IP54 | - 4 | 3 - | - - |
| Collocation insert Basic Sealing element 1-layer U-shape with cover |  | IP20 | IP20 | IP55 | 2/3mm 60/30 | 5mm 12 | 10mm 2 |
| Adapter entry No sealing 1-layer Usable for 2 x SC, LC-D, E-2000 adapters |  | IP20 | IP20 | IP20 | - | - | - |

Important: The Polaris-box 6 housing can reach a max. housing protection up to IP65 if the right sealing element will be used.


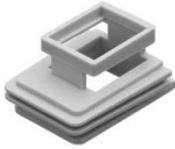
The basic Polaris-box 6 will be always delivered with closed knock-out able cable entries.

The desired cable entry can be broken out and optionally assembled with the needed cable sealing elements from the list. The IP protection falls down to the protection class according to the listed overview from above.

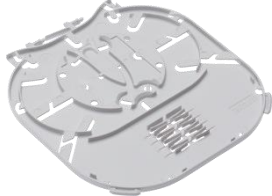
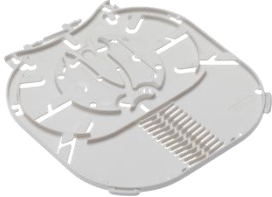
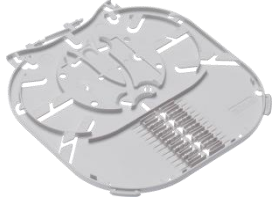


Cable sealing elements

| | Description | R&M No. |
|---|--|-----------------------|
|  | <p>Polaris cable entry IP65 Ø 3mm - 9mm Cable sealing element for mounting into the knock-out able cable entries on the Polaris-box 6 housing PU: 1 pcs. 1 x Housing two body piece 1 x Sealing element Ø 3mm - 9mm</p> | <p>R820283</p> |
|  | <p>Polaris cable entry IP65 Ø 9mm - 13mm Cable sealing element for mounting into the knock-out able cable entries on the Polaris-box 6 housing PU: 1 pcs. 1 x Housing two body piece 1 x Sealing element Ø 9mm - 13mm</p> | <p>R820284</p> |
|  | <p>Polaris cable entry IP65 12 x Ø 2mm - 3mm Cable sealing element for mounting into the knock-out able cable entries on the Polaris-box 6 housing PU: 1 pcs. 1 x Housing two body piece 3 x Sealing elements for 4 x Ø 2mm - 3mm 3 x Strain relive 3-layers for 4 x Ø 2mm - 3mm</p> | <p>R820286</p> |
|  | <p>Polaris cable entry IP65 Ø 3mm - 13mm Cable sealing element for mounting into the knock-out able cable entries on the Polaris-box 6 housing PU: 1 pcs. 1 x Sealing element with step solution Ø 3mm - 13mm</p> | <p>R820285</p> |
|  | <p>Polaris cable entry IP54 12 x Ø 2mm - 2.7mm Cable sealing element for mounting into the knock-out able cable entries on the Polaris-box 6 housing PU: 1 pcs. 3 x Sealing elements for 4 x Ø 2mm - 2.7mm</p> | <p>R820287</p> |
|  | <p>Polaris cable entry IP54 8 x Ø 5mm Cable sealing element for mounting into the knock-out able cable entries on the Polaris-box 6 housing PU: 1 pcs. 1 x Sealing element for 8 x Ø 5mm</p> | <p>R820288</p> |
|  | <p>Polaris cable entry IP54 4 x Ø 2mm - 2.7mm, 3 x Ø 7mm Cable sealing element for mounting into the knock-out able cable entries on the Polaris-box 6 housing PU: 16 pcs. 1 x Sealing element for 4 x Ø 2mm - 2.7mm 1 x Sealing element for 3 x Ø 7mm</p> | <p>R820289</p> |

Cable entry option





| | Description | R&M No. |
|---|--|----------------|
|  | <p>Polaris collocation insert IP55 Collocation bridge for mounting into the knock-out cable side cable entries to connect two boxes each other PU: 1 pcs. 1 x U-shape frame with integrated cover</p> | R820290 |
|  | <p>Polaris adapter entry for SC/LC/E-2000 Adapter insert for mounting into the knock-out cable entries. Mounting of 2 x flange less adapter LC-D, SC or E-2000 PU: 1 pcs. 1 x Adapter insert</p> | R820291 |

FMTS Splice Tray System

| | Description | TPU ⁽¹⁾ | R&M No. |
|---|---|--------------------|----------------|
|  | <p>FMTS Splice Tray 4HS/4ANT, gray FMTS-HS4/ANT4-1TPU-GY FMTS splice tray for 4 heat shrink splice protectors (Ø2.3 - 2.7mm) or 4 sandwich splice protectors (ANT) PU: 12 pcs.</p> | 1 | R820094 |
|  | <p>FMTS Splice Tray 12HS, gray FMTS-HS12-1TPU-GY FMTS splice tray for 12 heat shrink splice protectors (Ø2.3 - 2.7mm) PU: 12 pcs.</p> | 1 | R820095 |
|  | <p>FMTS Splice Tray 12ANT, gray FMTS-ANT12-1TPU-GY FMTS splice tray for 12 sandwich splice protectors (ANT) PU: 12 pcs.</p> | 1 | R820096 |
|  | <p>FMTS Splice Tray Splitter, gray FMTS-SPLIT-2TPU-GY FMTS splice tray for splitter max. 2:32 (60x16x7) incl. splice holder for 2 heat shrink splice protectors (Ø2.3 - 2.7mm) or 2 sandwich splice protectors (ANT) PU: 6 pcs.</p> | 2 | R820097 |
|  | <p>FMTS Splice Tray Cover, gray FMTS-COVER-GY FMTS splice tray cover PU: 12 pcs.</p> | | R820098 |

⁽¹⁾ TPU: Tray Position Units correspond to the number of tray fixing possibilities.

Accessories FMTS Splice Tray System

| | Description | R&M No. |
|---|---|---|
|  | <p>FMTS Labeling Sheet A4 FMTS-LABEL-A4</p> <p>FMTS label-sheet in A4 format, 35 labels per sheet</p> <p>PU: 10 pcs.</p> | <p>R830928</p> |
|  | <p>Marker Clips "0", White, D2.3-3.0mm Marker Clips "1", White, D2.3-3.0mm Marker Clips "2", White, D2.3-3.0mm Marker Clips "3", White, D2.3-3.0mm Marker Clips "4", White, D2.3-3.0mm Marker Clips "5", White, D2.3-3.0mm Marker Clips "6", White, D2.3-3.0mm Marker Clips "7", White, D2.3-3.0mm Marker Clips "8", White, D2.3-3.0mm Marker Clips "9", White, D2.3-3.0mm</p> <p>Numbering clips for marking the FMTS splice trays or loose tubes (2.3 – 3.0mm)</p> <p>PU: 10 strips (30 clips per strip)</p> | <p>R813861 R813862 R813863 R813864 R813865 R813866 R813867 R813868 R815258 R815259</p> |
|  | <p>Marker Clip Set "0-9", White, D2.3-3.0mm</p> <p>Numbering clip set for marking FMTS splice trays or loose tubes (2.3 – 3.0mm)</p> <p>Content: 2x "1" / 2x "2" / 1x "3"- "9" / 1x "0"</p> <p>PU: 1 set (12 strips)</p> | <p>R830929</p> |
|  | <p>Marker Clips Red, D2.3-3.0mm Marker Clips Green, D2.3-3.0mm Marker Clips Yellow, D2.3-3.0mm Marker Clips Blue, D2.3-3.0mm</p> <p>Clip for marking FMTS splice trays for loose tubes (2.3 - 3.0mm)</p> <p>PU: 10 strips (30 clips per strip)</p> | <p>R815260 R815261 R815262 R815263</p> |

More accessories

| | Description | R&M No. |
|---|---|-----------------------|
|  | <p>Polaris pole mounting kit</p> <p>Pole mounting kit for an easy mounting of the Polaris-box 6 on a pole with Ø 60mm-Ø 250mm</p> <p>PU: 1 Set 1x Mounting plate 4x Screws</p> | <p>R820292</p> |

Product details



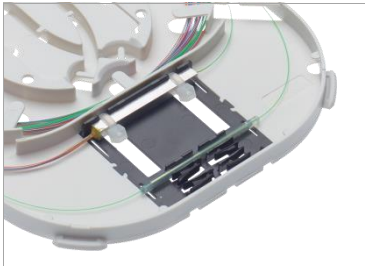
Polaris-box 6 Basic application

- Up to 12 splice connections with HS or ANT
- Up to 6/(12) x SC, E-2000, (LC) patch connections
- Splitter mounting position for PLC-Splitter up to max. 2:16 (900um)
- Two separated fiber storages



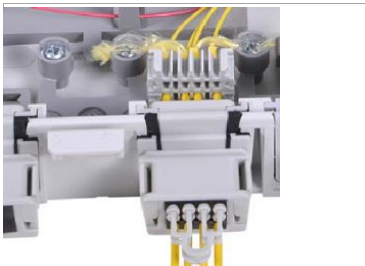
Polaris-box 6 with FMTS-trays

- Up to 60 splice connections with HS or ANT
- Up to 4 x 1TPU or 2 x 2TPU FMTS trays upgradable
- Up to 6/(12) x SC, E-2000, (LC) patch connections
- Splitter mounting position for PLC-Splitter up to max. 2:16 (900um)
- Two separated fiber storages



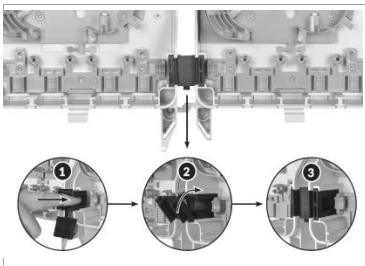
FMTS 2TPU-tray splitter application

- Splitter can be installed directly into the tray
- Splitter ration of max. 2:32 with 250µm fibers
- Splitter ration of max. 2:16 with 900µm fibers
- Splitter dimensions: max. 60mm x 16mm x 7mm
- Splice holder for 2 heat shrink splice protectors or 2 sandwich splice protectors (ANT)



Polaris-box 6 Drop cable sealing element incl. strain relief

- Up to 12 x drop cables 2mm-3mm
- Easy integration of cables trough pre slotted sealing elements
- 3-layers for an easy cable migration
- Unused holes can be sealed by blind elements



Polaris-box 6 collocation bridge

- Box connection bridge for an easy cable routing between the boxes
- Easy cables and fiber installation without lead through



Polaris-box 6 OTO application

- Up to 2 x SC, E-2000 or LC-D adapters per adapter insert
- Adapter insert for an easy adaption of adapters outside the box