



# 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 <sup>(1)</sup>	TPU <sup>(1)</sup>	Connection capacity	Cable entries	Ø Cable	Ordering Number
<b>Polaris-box 6</b>	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	<b>R820281</b>  <b>R820282</b>
<b>Polaris-box 6 with lock</b>	With additional FMT trays up to max. 60 splice connections					

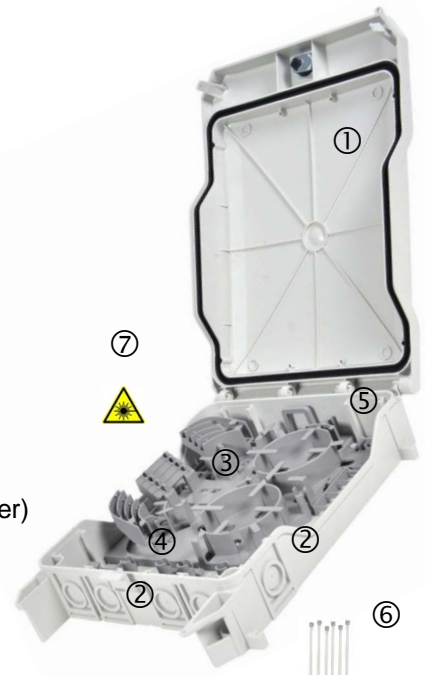
(1) TPU: Tray Position Units correspond to the number of tray fixing possibilities.

### Polaris-box 6

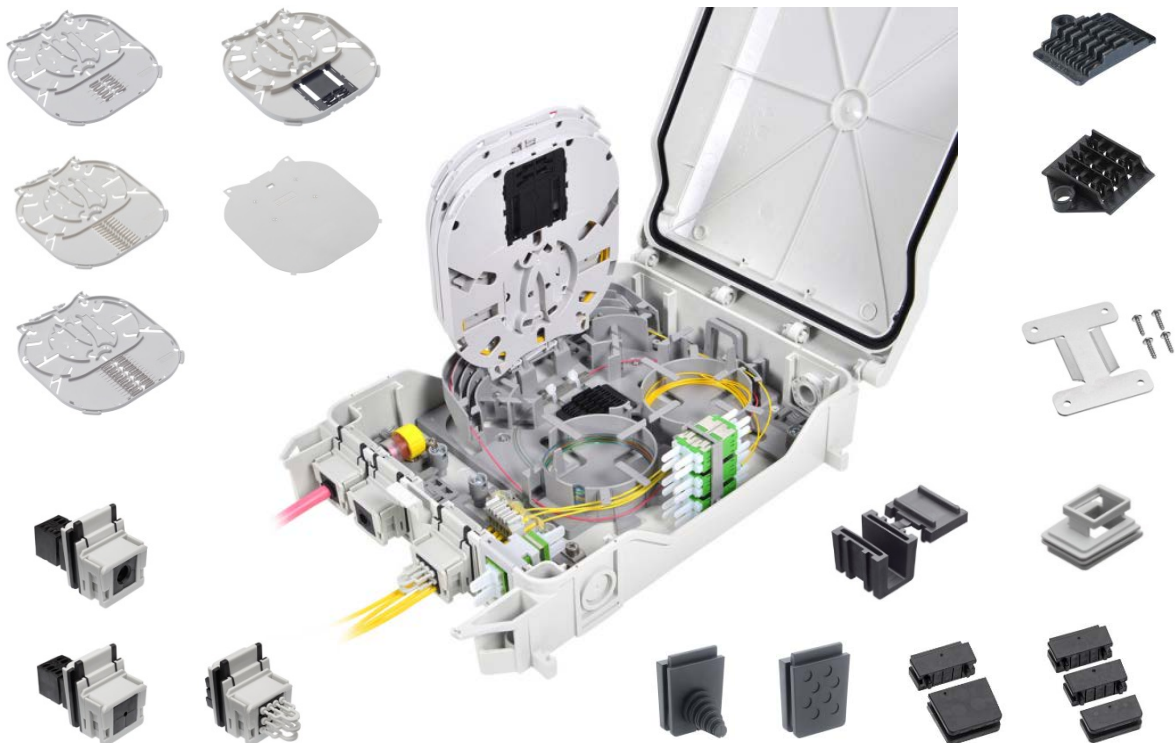










## Scope of Delivery

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



<b>Polaris Cable sealing elements description</b>	<b>Pictures</b>	<b>IP below</b>	<b>IP top</b>	<b>IP side</b>	<b>amount cables Ø 2-3mm</b>	<b>amount cables Ø 3-9mm</b>	<b>amount cables Ø 9-13mm</b>
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.


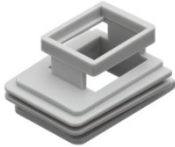
The basic Polaris-box 6 will be always delivered with closed knock-out able cable entries.

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.

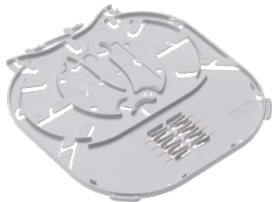
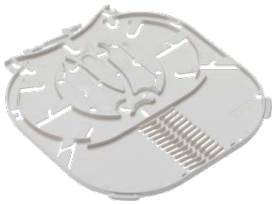
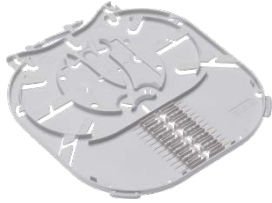

#### Cable sealing elements

	Description	R&M No.
	<b>Polaris cable entry IP65 Ø 3mm - 9mm</b> 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	<b>R820283</b>
	<b>Polaris cable entry IP65 Ø 9mm - 13mm</b> 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	<b>R820284</b>
	<b>Polaris cable entry IP65 12 x Ø 2mm - 3mm</b> 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	<b>R820286</b>
	<b>Polaris cable entry IP65 Ø 3mm - 13mm</b> 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	<b>R820285</b>
	<b>Polaris cable entry IP54 12 x Ø 2mm - 2.7mm</b> 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	<b>R820287</b>
	<b>Polaris cable entry IP54 8 x Ø 5mm</b> 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	<b>R820288</b>
	<b>Polaris cable entry IP54 4 x Ø 2mm - 2.7mm, 3 x Ø 7mm</b> 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	<b>R820289</b>

## Cable entry option

	Description	R&M No.
	<b>Polaris collocation insert IP55</b> 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	<b>R820290</b>
	<b>Polaris adapter entry for SC/LC/E-2000</b> 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	<b>R820291</b>


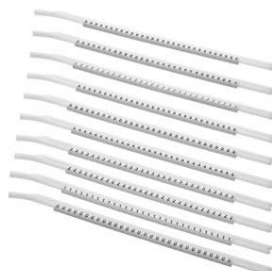


## FMTS Splice Tray System

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


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



## Accessories FMTS Splice Tray System

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

## More accessories

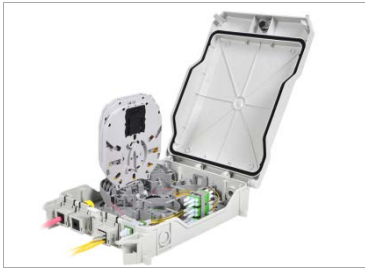
	Description	R&M No.
	<b>Polaris pole mounting kit</b> Pole mounting kit for an easy mounting of the Polaris-box 6 on a pole with Ø 60mm-Ø 250mm  PU: 1 Set 1x Mounting plate 4x Screws	<b>R820292</b>

## Product details



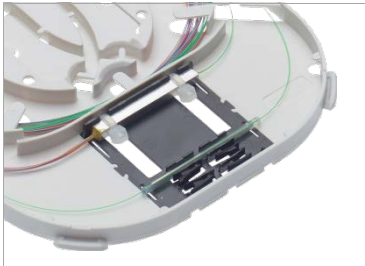
### Polaris-box 6 Basic application

- 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



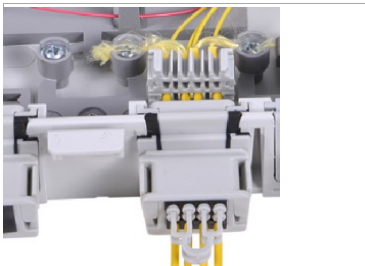
### Polaris-box 6 with FMTS-trays

- 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



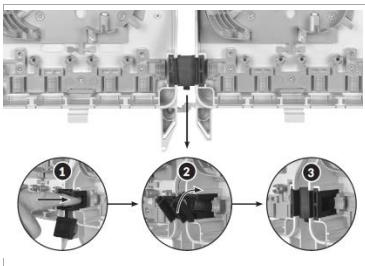
### FMTS 2TPU-tray splitter application

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



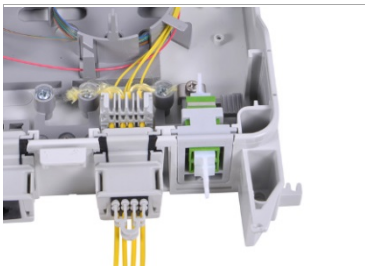
### Polaris-box 6 Drop cable sealing element incl. strain relief

- Up to 12 x drop cables 2mm-3mm
- Easy integration of cables through 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