

REHAU MICRO CABLE DUCT SYSTEM

AREA OF APPLICATION “FIBRE TO THE X”

REHAU MICRO CABLE DUCT SYSTEM

PRODUCT RANGE

The increasing use of optical fibre-based high-speed data networks in global communications technology means ever more new system components are required for laying them, jointing them and operating them.

Over coming years, development and economic projects will equip areas with

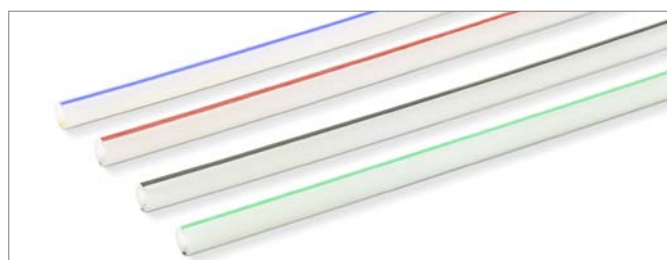
powerful broadband systems they have up to now been without. This applies to industry as well as to the home.

REHAU has therefore appropriately extended its telecommunications product range and can now go the "last mile" as a global player in the "FTTx" broadband network architecture sector.

Micro cable ducts

For the blowing in of fibre optic cables

Material: PE-HD, transparent with coloured stripes



Art. No.	Dimension	Outer diameter [mm]	Inner diameter [mm]	Delivery lengths [m]
102403	5 x 0.75	5	3,5	2,000
102176	7 x 0.75	7	5,5	1,250
102177	7 x 1.5	7	4	1,250
102178	10 x 1.0	10	8	2,500
102185	10 x 2.0	10	6	2,500
102186	12 x 2.0	12	8	1,750
102187	14 x 2.0	14	10	1,250
102188	16 x 2.0	16	12	1,000

Delivery times on request

Duct bundles

Outer layer: PP, black

Micro cable ducts: PE-HD



Art. No.	max. outer diameter in mm	Description	Delivery lengths in m
102156	36	24 x 5 x 0.75	1,200
102194	30	12 x 7 x 1.5	1,300
102199	34	14 x 7 x 1.5	1,200
102217	43	22 x 7x 1.5 + 1 x 12 x 2.0	800
102195	44	24 x 7 x 1.5	900
102216	42	12 x 10 x 2.0	500
102205	32	4 x 12 x 2.0	2,000
102206	39	7 x 12 x 2.0	1,000
102215	30	3 x 14 x 2.0	1,250
102207	44	5 x 14 x 2.0	1,100
102214	43	7 x 14 x 2.0	800
102196	42	4 x 16 x 2.0	1,100

Other duct bundles available upon request / delivery times on request

Plug connectors

For connecting lengths of micro cable duct, tight and pressure resistant to 10 bar. Plug connectors come with pre-fitted locking clips.

Art. No.	Diameter [mm]	Packaging unit
225512	5	10
225652	7	50
225672	10	50
225682	12	25
225692	14	25
150186	16	25



Reducers

For connecting lengths of micro cable duct of different nominal diameters, tight and pressure resistant to 10 bar. Reducers come with pre-fitted locking clips.

Art. No.	Reducer	Packaging unit
225742	12 mm - 10 mm	25
225722	10 mm - 7 mm	25
225702	7 mm - 5 mm	100



End caps

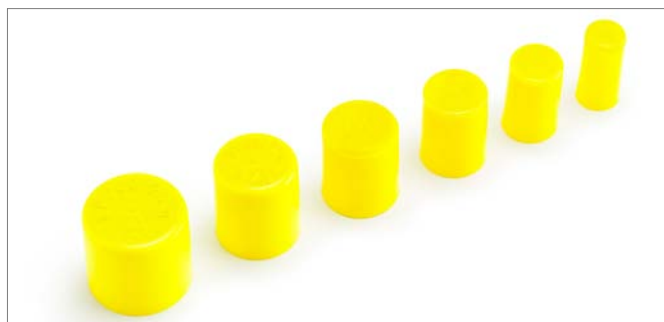
For closing the ends of lengths of unoccupied micro cable duct, pressure resistant to 10 bar. End caps come with pre-fitted locking clips.

Art. No.	Diameter [mm]	Packaging unit
225792	5	10
225812	7	50
225832	10	50
225842	12	25
150195	14	25
150196	16	25



Micro cable duct transport caps

Art. No.	Size	Packaging unit
150244	7 mm	100
150245	10 mm	100
150246	12 mm	100
150247	14 mm	100
150248	16 mm	100



REHAU TELECOMMUNICATIONS PRODUCTS AT A GLANCE

SYSTEM SOLUTIONS FOR LOCAL AND REMOTE NETWORKS

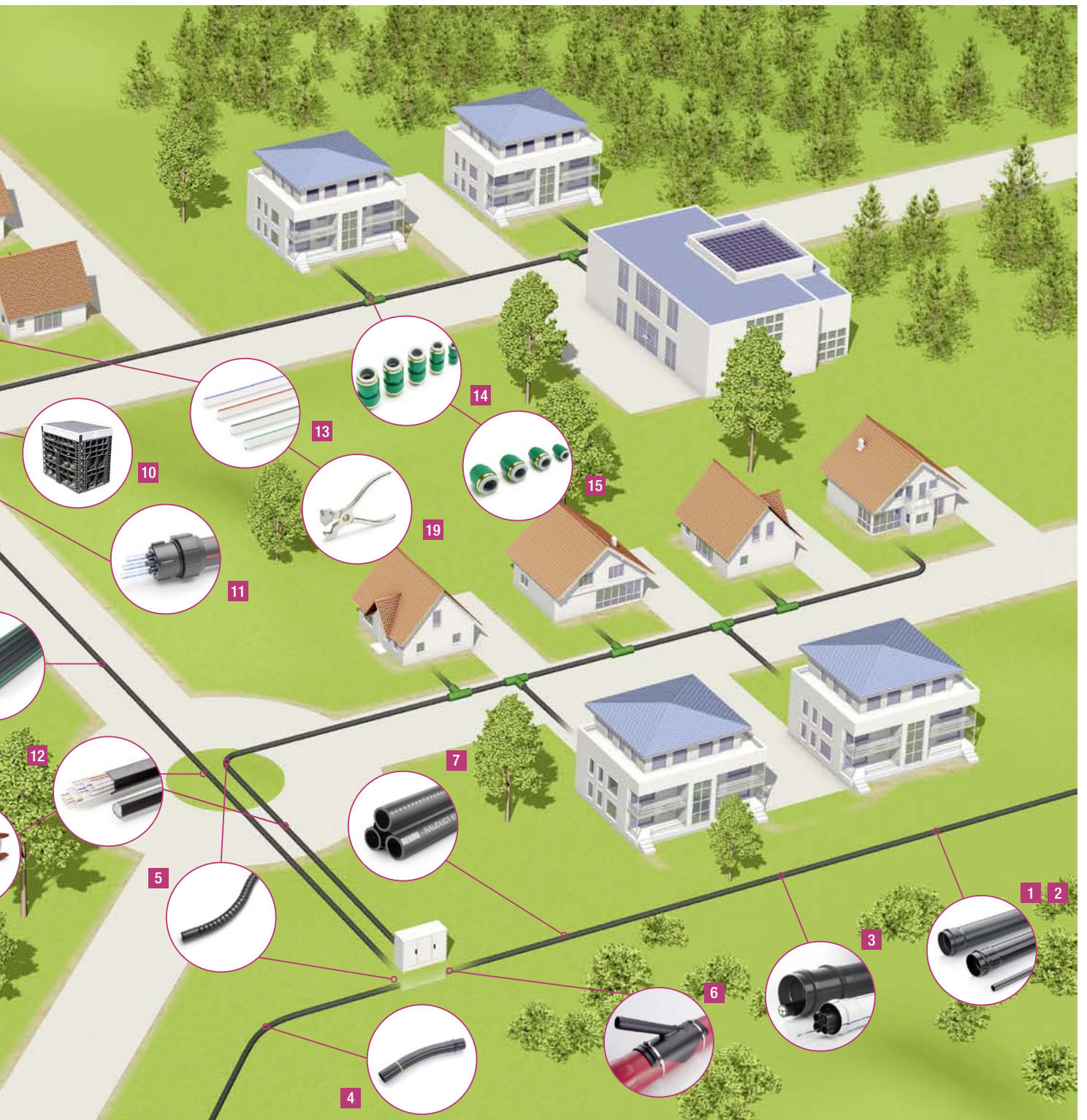
Backbone

- 1 PVC cable duct
- 2 PE cable duct
- 3 PP cable duct
- 4 PVC cable duct bend
- 5 Flexible bend
- 6 Swept T branch
- 7 RAUDUCT EVMR multiple subducting pipes

Distribution network

- 8 RAUDUCT multiple subducting pipes
- 9 REHAU plug connectors
- 10 Chamber
- 11 Multiple sealing element
- 12 Micro cable duct bundles
- 13 Individual micro cable ducts
- 14 Micro cable duct plug connectors
- 15 Micro cable duct end caps
- 16 Individual passage seals
- 17 House lead-in
- 18 Pipe cutter
- 19 Micro cable duct cutter





MKR divisible sealing element

Dividable and reusable sealing element for sealing unoccupied and occupied REHAU micro cable ducts. Tightness against gas and water up to 0.5 bar.

Art. No.	d (mm)	Cable diameter (mm)	Packaging unit
206 639	7	0.8 - 2.5	25
206 643	7	2.0 - 4.0	25
206 645	10	1.8 - 3.5	25
206 646	10	3.0 - 5.0	25
206 648	10	4.5 - 6.0	25
206 649	12	3.0 - 5.0	25
206 653	12	5.0 - 6.5	25
206 655	12	6.5 - 8.0	25
206 656	14	3.0 - 5.0	25
206 658	14	5.0 - 6.5	25
206 659	14	6.5 - 8.0	25

Available November 2011.



Sealing plugs

For closing the ends of lengths of unoccupied micro cable duct in combination with REHAU plug connectors, pressure proof.

Art. No.	Diameter [mm]	Packaging unit
225752	5	10
225782	10	10
227592	12	10
150209	16	100



Individual passage seals

For connecting fibre optic cables to the micro cable duct, tight and pressure resistant.

Art. No.	Size [mm]	Cable diameter [mm]	Packaging unit
225862	5	0.5-3.5	100
225872	7	2.0-5.5	100
150224	7	0.5-3.5	100
225892	10	5.0-8.0	100
150225	10	1.0-4.0	100
150185	12	7.0-10.0	100
150226	12	3.0-6.0	100
150227	12	5.0-8.0	100
150193	14	9.0-12.0	100
150228	14	7.0-10.0	100
150229	14	5.0-8.0	100
150234	14	3.0-8.0	100



45° Y-branch

Separable branch for the water tight connection of cable ducts.

Art. No.	Diameters [mm]	Packaging unit
150198	40-40-32	1
225992	40-40-40	1
150199	50-50-32	1
150203	50-50-40	1
226012	50-50-50	1



90° Y-branch

Separable branch for the water tight connection of cable ducts.

Art. No.	Diameters [mm]	Packaging unit
226032	40-40-40	1
150204	50-50-50	1



Reducer for 45° and 90° branches

For adjusting to existing PE cable ducts.

Art. No.	Diameters [mm]	Packaging unit
226042	40-32	10
226052	50-32	10
150205	50-40	10



House lead-in

House lead-in for sealing micro cable ducts when inserted into house walls. For micro cable ducts from 7 mm to 14 mm or 2 micro cable ducts ≤ 7 mm.
Borehole diameter 24 mm.
Standard for wall thicknesses up to 400 mm. For thicker walls on request.
Gas-tight and water-tight up to a 4 m head of water.

Art. No.	Packaging unit
150001	1



Multiple sealing element

Art. No.	Size [mm]	Packaging unit
150206	40/5 x 7 mm	1
150207	40/5 x 10 mm	1
150208	50/7 x 10 mm	1



Injection socket (push-on garniture)

Art. No.	Size [mm]	Packaging unit
225952	5	50
150197	7	50

RAUCUT I

Art. No.	Packaging unit
269466	1

RAUCUT II UNI

Art. No.	Packaging unit
233336	1



Pipe cutter 63

Art. No.	Packaging unit
139092	1



Bundle lengthways cutter

Art. No.	Packaging unit
150235	1



Bundle pipe cutter

Art. No.	Packaging unit
150236	1



Micro cable duct pipe cutter for unoccupied pipes

Art. No.	Pipe diameter	Packaging unit
150237	5-12 mm	1
150249	14-20 mm	10



Micro cable duct pipe cutter for occupied pipes

Art. No.	Packaging unit
150238	1



1. Electrical installation for industry



PVC LE routing trunking

Tried and tested building site grade for fast, precise laying.



Steel sheet BES/LES routing trunking

Protective zone for added safety.



REHAU SIGNO dado trunking

Trunking can actually be this versatile.



Wiring trunking

The perfect connection solution! Wiring in control panels and cabinets.

2. Electrical installation for homes and renovation projects



SL/SL-L/SL-T skirting trunking

Ideas for home design and renovation projects.



RAUDUO electro/heating duct

RAUDUO - the clever system for electrics and heating.



RAUTRIGO cornice trunking

The corners specialist.



MKE/MKS mini ducts

Mini installation duct for universal use.

3. Electrical installation in the office



REHAU PVC SIGNO BK dado trunking

A winner – every day.



REHAU aluminium SIGNO BA dado trunking

Well thought-out assembly and sophisticated design.



Steel sheet REHAU SIGNO BS dado trunking

Safety with maximal added value – no more time-consuming earthing work.



SIGNO INOVA service pole system

The fusion of format, function and finesse.



SIGNO INTEGRALE supply station

Still an element of the electrical system or already part of the furnishings?



SIGNO CUBICO trunking socket

The most attractive way of being faster.

Planning and installation

Injecting micro cables and mini cables

REHAU micro cable ducts can be injected into cable ducts using air blowing equipment.

The blowing device manufacturer's instructions for use are to be heeded when doing so.

Insertion of micro cable ducts

REHAU micro cable ducts can be inserted into cable ducts. To do this, we recommend fastening the micro cable ducts to a draw rope using a tight clamping device.

During this process, the following are the max. permissible tensile forces to be applied to RAU-PE micro cable ducts:

Micro cable duct	Tensile force
5 x 0.75	80 N
7 x 0.75	115 N
7 x 1.5	200 N
10 x 1.0	220 N
10 x 2.0	400 N
12 x 2.0	500 N
14 x 2.0	600 N
16 x 2.0	700 N

Direct installation in the ground

Direct installation in the ground in sand 0/2 is generally possible.

When doing this, it is to be ensured that rougher soil particles cannot migrate to contact the micro cable ducts. The risk of bite damage from rodents is also to be considered.

Injection of glass fibre and micro cables (EPFU)

Glass fibre, glass fibre bundles and micro cables (EPFU) can be injected into REHAU micro cable ducts using conventional injection devices.

The device manufacturer's operating instructions are to be observed when doing so.

Storage and transport

Point loads and also contact with sharp objects are to be avoided during storage and transport.

Drums are to be stored in such a way that the load is absorbed exclusively by the flange of the drum.

REHAU RAU-PE micro cable ducts are UV-stabilised and can be stored outdoors in Central Europe for up to a year.

Direct sunlight as well as heating to above 35 °C should however be avoided, as the micro cable duct reels can assume an oval shape under their own weight.

Our verbal and written advice relating to technical applications is based on experience and is to the best of our knowledge correct but is given without obligation.

The use of REHAU products in conditions that are beyond our control or for applications other than those specified releases us from any obligation in regard to claims made in respect of the products.

We recommend that the suitability of any REHAU product for the intended application should be checked. Utilization and processing of our products are beyond our control and are therefore exclusively your responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you.

Our warranty assumes consistent quality of our products in accordance with our specification and in accordance with our general conditions of sale.

This document is protected by copyright. All rights based on this are reserved. No part of this publication may be translated, reproduced or transmitted in any form or by any similar means, electronic or mechanical, photocopying, recording or otherwise, or stored in a data retrieval system.

REHAU SALES OFFICES

AE: Dubai, Phone: +971 4 8835677, dubai@rehau.com **AU: Adelaide**, Phone: +61 8 82990031, adelaide@rehau.com **Brisbane**, Phone: +61 7 38897522, brisbane@rehau.com **Melbourne**, Phone: +61 3 95875544, melbourne@rehau.com **Perth**, Phone: +61 8 94564311, perth@rehau.com **Sydney**, Phone: +61 2 87414500, sydney@rehau.com **CA: Moncton**, Phone: +1 506 5382346, moncton@rehau.com **Montreal**, Phone: +1 514 9050345, montreal@rehau.com **St. John's**, Phone: +1 709 7473909, stjohns@rehau.com **Toronto**, Phone: +1 905 3353284, toronto@rehau.com **Vancouver**, Phone: +1 604 6264666, vancouver@rehau.com **Winnipeg**, Phone: +1 204 6972028, winnipeg@rehau.com **GB: Glasgow**, Phone: +44 1698 503-700, glasgow@rehau.com **Manchester**, Phone: +44 161 7777-400, manchester@rehau.com **Slough**, Phone: +44 1753 5885-00, slough@rehau.com **IE: Dublin**, Phone: +353 1 816502-0, dublin@rehau.com **NZ: Auckland**, Phone: +649 2722264, auckland@rehau.com **SG: Singapore**, Phone: +65 63926006, singapore@rehau.com **US: Chicago**, Phone: +1 630 3173500, chicago@rehau.com **Detroit**, Phone: +1 248 8489100, detroit@rehau.com **Grand Rapids**, Phone: +1 616 2856867, grandrapids@rehau.com **Greensboro**, Phone: +1 336 8522023, greensboro@rehau.com **Los Angeles**, Phone: +1 951 5499017, losangeles@rehau.com **Minneapolis**, Phone: +1 612 253 0576, minneapolis@rehau.com **ZA: Durban**, Phone: +27 31 657447, durban@rehau.com, **Johannesburg**, Phone: +27 11 2011300, johannesburg@rehau.com