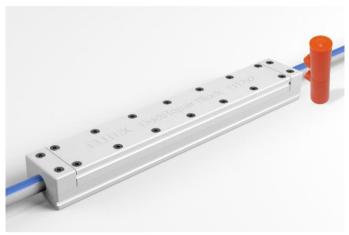


DuctRepair-Block 200/400 mm Length DuctRepair-Boxx Microduct Ø 7-20 mm

Technical Data Sheet

Application

Till today there was no sustainable solution for entire restoration of damaged microducts available, which were already installed with a fiber optic cable. Entire restoration means, not only a sealed repair, rather a full capability of cable blow in and out like an intact microduct. This solution applies i.e. for microducts which have been pulled out from plugs due to material shrinkage of the duct or also due to elongation by relocation of microducts in a trench. For those applications, Elitex has developed the DuctRepair-Block. It is designed like a divisible coupling which replace a damaged or missing microduct part. The DuctRepair block enables a seamless transition of the inner diameter as well as a pressure and pull tight fixation of the microducts. Thus, cable blow in and out is enabled like before. This solution is



DuctRepair-Block 200 mm with DuctMarker

available for repair length of 200 mm or 400 mm, extended distances could be reached by cascade of necessary blocks. The DuctRepair-Block suits for permanent direct bury into soil. Optional the Duct-Repair-Block can be marked with a DuctMarker and therefore detected with a common locater even after years (see data sheet DuctMarker).

Technical Data DuctRepair-Block

reciffical Data Ductnepail-Block				
Attribute	Value			
Application	Permanently installable in sand bed			
	Performance Standard DIN EN IEC 61753-1 category C/OP/S: C controlled			
	environment, OP Outdoor protected environment and S subterranean environment			
Temperature range	Operation: -20 °C to +60 °C			
	Installable: +5 °C to +35 °C			
Tightness	Dust and media tight, according to Ingress Protection Code IP68, 5 m water head			
Pressure tightness	Pressure for cable blow in and out 1,5 MPa (15 bar) 1 hour 40 °C			
Material Enclosure	Top- and bottom part made from impact-resistant POM,			
	bolted joint of high-alloy stainless steel 1.4571, A4 1.4401/1.4404			
Material Sealing	Thermoplastic rubber (TPE)			
Recycling	All materials are recyclable.			

Listed values apply for properly installed product with tools from Elitex DuctRepair-Boxx

Attribute	Size	7-200/-400	10-200/-400	12-200/-400	14-200/-400	16-200/-400	20-200/-400
Outer Ø microduc	:t ¹⁾	7	10	12	14	16	20
Tolerance [mm]		+0.1	+0.1	+0.1	+0.1	+0.15	+0.15
Inner Ø microduc	t ¹⁾ thin-walled	5,5	8	9.8	11.4	13	16
wall thickness Tol	erance [mm]	0.75 +0,1	1.0 +0.1	1.1 +0.1	1.3+0.1	1.5+0.1	2+0.15
Inner Ø microduc	t ¹⁾ thick-walled ²⁾	4	6	8	10	12	15
wall thickness tole	erance [mm]	1.5 +0.1	2.0 +0.1	2.0 +0.15	2.0 +0.15	2.0 +0.15	2.5 +0.15
Inner Ø DuctRepa	ir-Block, >thin-	5.5	8	9.8	11.4	13	16
Tolerance ±0.02 [r	nm]>thick-walled	4	6	8	10	12	15
Tensile strength m	nicroduct ²⁾ [N]	≥200	≥400	≥500	≥550	≥600	≥700
Length [mm]		252/452	252/452	252/452	252/452	252/452	252/452
Width[mm]	_	33	36	39	40	42	46
Height [mm]		26	26	26	26	36	36
Weight [g]		537/975	537/975	537/975	537/975	700/1250	720/1290

¹⁾ Microduct tolerances apply according to VDE 0800-720. ²⁾ Thick-walled duct for direct buried application Listed values apply for properly installed product with tools from Elitex DuctRepair-Boxx

Scope of delivery

DuctRepair-Block consist of below listed components:

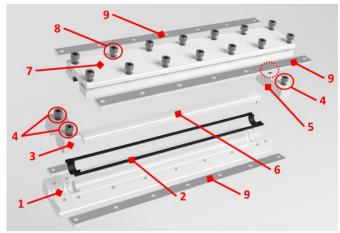
- 1 = DuctRepair-Block bottom part with sealing (2) and thread rail (9) preinstalled
- 3 = Strain relief left and right (5) and screws (4) preinstalled.
- 6 = Protection tunnel with dowels
- 7 = DuctRepair-Block top part (7), thread rail (9) and screws (8) preinstalled.

18x Allen screw M4 for size 200 mm

32x Allen screw M4 for size 400 mm

Installation instruction short guide

All main parts are marked with the corresponding size of microduct i.e. 12x2.



Exploded view DuctRepair-Block 200 mm

Ordering code DuctRepair-Block

Diameter (thick walled microduct)	Order No. size 200 mm	Order No. size 400 mm	
DuctRepair Block Ø 7 x 1,5 x size [mm]	01-067-04/RS252-7	01-067-04/RS452-7	
DuctRepair Block Ø 10 x 2,0 x size [mm]	01-068-04/RS252-10	01-068-04/RS452-10	
DuctRepair Block Ø 12 x 2,0 x size [mm]	01-069-04/RS252-12	01-069-04/RS452-12	
DuctRepair Block Ø 14 x 2,0 x size [mm]	01-070-04/RS252-14	01-070-04/RS452-14	
DuctRepair Block Ø 16 x 2,0 x size [mm]	01-071-04/RS252-16	01-071-04/RS452-16	
DuctRepair Block Ø 20 x 2,5 x size [mm]	01-072-04/RS252-20	01-072-04/RS452-20	

Diameter (thin walled microduct)	Order No. size 200 mm	Order No. size 400 mm
DuctRepair Block Ø 7 x 0,75 x size [mm]	01-078-04/RS252-7	01-078-04/RS452-7
DuctRepair Block Ø 10 x 1,0 x size [mm]	01-079-04/RS252-10	01-079-04/RS452-10
DuctRepair Block Ø 12 x 1,1 x size [mm]	01-080-04/RS252-12	01-080-04/RS452-12
DuctRepair Block Ø 14 x 1,3 x size [mm]	01-081-04/RS252-14	01-081-04/RS452-14
DuctRepair Block Ø 20 x 2 x size [mm]	01-082-04/RS252-20	01-082-04/RS452-20

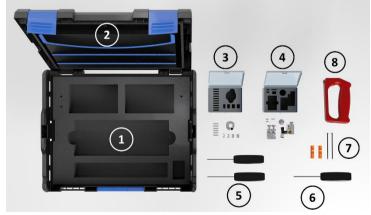
Tool Set DuctRepair-Boxx

To ensure that the DuctRepair-Block achieves the specified values for tensile strength, capability of cable blow in and out performance and product tightness, Elitex has developed a precision tool set. For accurate assembly in the set contains a axial and circular cutter, spacers and all necessary tools. The tools are available sepratly as well as all spare parts. The foam covered case serve also enough space for several DuctRepair blocks for the repair dimension 200 mm.. In addition, the case also contains two DuctMarkers to find the connection point

Scope of delivery

DuctRepair-Boxx contains:

- 1 = Transport case with space for DuctRepair-Blocks*
- 2 = Product documentation with installation instruction for every tool and DuctRepair-Block
- 3 = DuctTool, circular cutter-kit for microducts
- 4 = DuctTool, axial cutter-kit for microducts
- 5 = 2x Allen key 2.5 mm for tool adjustment
- 6 = 1x Allen key 3.0 mm for assembling of the DuctRepair-Block
- 7 = 1 PU (2 pieces) DuctMarker with cable tie
- 8 = Safety jacket stripper or jacket stripper



DuctRepair-Boxx (tools like displayed or similar)

The DuctRepair-Blocks are not included in the delivery content and should be ordered separately according to microduct size to be repaired (see table ordering code DuctRepair-Block)

Item	Order No.
Tool Set DuctRepair-Boxx	01-083-Boxx

Elitex GmbH

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www.elitex-gmbh.de



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DuctRepair-Block

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