



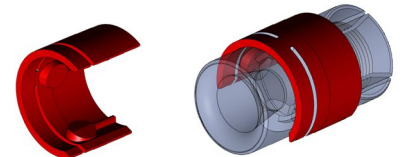
Application and features

The WGT is a sealing element for micro ducts according to DIN EN 50411-2-8. It fits for all listed sizes independent from pipe manufacturers. The WGT seals off water and gas in micro ducts with various cable diameters and works also like a blind plug for empty ducts. Beside excellent sealing performance the WGT also has a good strain and push relief for cable and micro duct. With the optional PowerClip® the strain relief improve by clamping the strength members of the cable like aramid yarn. At the cable side, the WGT has an integrated shape for bend protection. The sealing gasket has a safety breaking point, which release gasket under extreme pressure and thus prevents release of the WGT from micro duct. The WGT is made from a corrosion-resistant aluminum alloy with anodized surface coating¹. Therefore, according to DIN EN 13501-1 (combustibility of building products) the WGT can be classified as A2 (non-/limited combustible), in combination with sealing gasket s1 (no-/little smoke) d0 (no droplets). The WGT, PowerClip and sealing gasket are halogen free according to DIN EN 60684-2. Temperature range applies from -40°C to +70°C



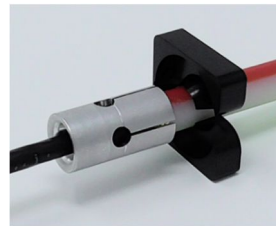
PowerClip®

With the optional PowerClip® the strain and push relief improve by clamping the strength members of the cable like aramid yarn (see table). The maximum attainable tensile forces depend on the quantity and quality of the strain relief elements from the cable. Order number see table Tools/Accessories



Tools

For every size of WGT a disassembly clip is available. For most sizes also, a professional installation tool is available. The tool simplifies assembly and disassembly of the WGT especially if the cable is already in place. The WGT can be installed without using the tool but for disassembly, at least for WGT size 5mm, 7mm and thin cables, the use of the PullClip is strongly recommended.



Scope of delivery

Every WGT housing comes with a sealing gasket according to the selected cable size (see table sealing gasket). Select sealing gasket according to your WGT size and cable diameter and specify number with order. The sealing gasket has two functions, it works as a blind plug for empty micro ducts and as a seal for the cable.

Table tools/accessories PowerClip®

PullClip	Order No.	Assembly Pliers	Order No.	PowerClip®	Order No.
WGT 5mm	01-044-01 A	WGT 5mm*	01-037-01 A*	-	-
WGT 7mm	01-045-01 A	WGT 7mm	01-038-01 A	WGT 7mm	01-011-01-A
WGT 10mm	01-046-01 A	WGT 10mm	01-039-01 A	WGT 10mm	01-008-01 A
WGT 12mm	01-047-01 A	WGT 12mm	01-040-01 A	WGT 12mm	01-009-01 A
WGT 14mm	01-048-01 A	-	-	-	-
WGT 16mm	01-049-01 A	-	-	-	-
WGT 20mm	01-060-01 A	-	-	-	-

* no longer available

Sealing gaskets

Sealing gaskets are available for common micro ducts and applicable cable diameters. The blind plug of sealing gasket can be separated from cable sealing at safety braking point. Sealing gaskets are made from thermoplastic rubber (TPV) Santoprene™. Select sealing gasket according to your WGT size and cable diameter from table below and specify number with order. Customer specific gaskets are available on request.



Technical Data

Feature	shut version	WGT 5	WGT 7 ⁵⁾	WGT 10 ^{*5)}	WGT 12 ^{*5)}	WGT 14 ⁵⁾	WGT 16 ⁵⁾	WGT 20
Order No.	01-028-02B	01-025-02B	01-026-02B	01-027-02B	01-035-02B	01-029-02B	01-055-02B	
Ø outside micro duct tolerance ²⁾ [mm]	5 ±0,1	7 ±0.1	10 ±0.2	12 ±0.2	14 ±0.2	16 ±0.2	20 ±0.2	
Ø cable [mm] for Ø micro duct/wall thickness [mm]	0.9-2.5 5/1.0	1.0-3.1 7/1.5	2.0-5.7 10/2.0	2.0-6.6 12/2.0	6.0-8.8 14/2.0	8.0-11.0 16/2.0	8.0-14.0 20/2.5	
Ø cable [mm] for Ø micro duct/wall thickness [mm]	0.9-3.0 5/0.75	1.0-4.6 7/0.75	2.0-6.6 10/1.0	2.0-9.4 12/1.1	6.0-9.7 14/1.3	-	8.0-15.0 20/2.0	
Ø outside WGT [mm]	8	10	14	17	19	22	26	
length WGT [mm]	15.5	19	26	32	38	42	52	
tensile strength WGT against micro cable [N] Ø cable [mm]	≥8 2	≥15 3	≥50 4.6	≥51 6.8	≥65 8.7	≥75 10.4	≥93 12.8	
tensile strength PowerClip® WGT against micro cable [N]	-	≥75N	≥250N	≥290N	-	-	-	
tensile strength WGT against micro duct, add. ¼ turn ³⁾ [N]	≥30 30-60	≥70 70-200	≥100 100-200	≥120 120-250	≥140	≥160	≥180	
tightness as blind plug, add. ¼ turn ³⁾ [bar]	≥2.5 4-7	≥5 5-13	≥5 5-13	≥5 5-13	≥5 5-9	≥5 5-8	≥5 5-8	
tightness with cable ⁴⁾ , add. ¼ turn ³⁾ [bar]	≥0.5 1-5	≥1 1-10	≥1 1-10	≥1 1-10	≥1 1-6	≥1 1-5	≥1 1-5	
Reaction to fire DIN EN 13501-1	A2 s1 d0	A2 s1 d0	A2 s1 d0	A2 s1 d0	A2 s1 d0	A2 s1 d0	A2 s1 d0	
Halogen free DIN EN 60684-2	yes	yes	yes	yes	yes	yes	yes	

Listed values apply for properly installed product according to installation instructions.

¹⁾ The aluminum alloy with anodized surface coating is corrosion-resistant. The surface coating may change optically over time especially under conditions with high humidity and aggressive media (i.e. de-icing salt). Color change or precipitation can be removed and have no influence on the material properties, tightness or reusability.

²⁾ Tolerances shall apply for micro ducts according to DIN EN 50411-6-1 und DIN EN 60794-5-ff

³⁾ Details see installation instruction

⁴⁾ tightness of 0,5 bar shall apply after 5 times repeated installation of WGT with same sealing gasket, at 20°C and 5°C, tested and approved according to specification of Deutsche Telekom TS SpeedNet-Micro Duct-System (size WGT 7/10/12)

⁵⁾ Approved by Vodafone according to specification VFCD TS 104

Table sealing gaskets

sealing gasket	min cable max			gasket no.			min cable max			gasket no.			min cable max			gasket no.			min cable max			gasket no.					
	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.			
micro duct dia.																											
5mm																											
5x1= inner 3.0	0.9	-	1.5	1	1.4	-	2	2	1.9	-	2.5	3															
5x0.75= inner 3.5	0.9	-	1.5	1	1.4	-	2	2	1.9	-	2.5	3	2.4	-	3	4											
7mm																											
7x1.50= inner 3.0	1	-	1.6	5	1.5	-	2.1	6	2	-	2.6	7	2.5	-	3.1	8											
7x0.75= inner 5.5	1	-	1.6	5	1.5	-	2.1	6	2	-	2.6	7	2.5	-	3.1	8	3	-	3,6	9	3,5	-	4,1	10			
10mm																											
10x2.0= inner 6.0	2	-	3	12	2.9	-	3.9	13	3.8	-	4.8	14	4.7	-	5.7	15											
10x1.0= inner 8.0	2	-	3	12	2.9	-	3.9	13	3.8	-	4.8	14	4.7	-	5.7	15	5,6	-	6,6	16							
12mm																											
12x2.0= inner 8.0	2	-	3	12	2.9	-	3.9	13	3.8	-	4.8	14	4.7	-	5.7	15	5,6	-	6,6	16							
12x1.1= inner 9.8	2	-	3	17	2.9	-	3.9	18	3.8	-	4.8	19	4.7	-	5.7	20	5,6	-	6,6	21	6,5	-	7,5	22			
14mm																											
14x2.0= inner 10.0	6	-	7	24	6.9	-	7.9	25	7.8	-	8.8	26															
14x1.3= inner 11.4	6	-	7	24	6.9	-	7.9	25	7.8	-	8.8	26	8.7	-	9.7	27											
16mm																											
16x2.0= inner 12.0	8	-	9	28	8.9	-	9.9	29	9.8	-	11	30															
20mm																											
20x2.5= inner 15.0	8	-	9	31	8.9	-	9.9	32	9.8	-	11	33	11	-	12	34	4,5	-	5,5	39	7,5	-	8,5	40			
20x2.0= inner 16.0	8	-	9	31	8.9	-	9.9	32	9.8	-	11	33	11	-	12	34	4,5	-	5,5	39	7,5	-	8,5	40			

Elitex GmbH

Justus-von-Liebig-Straße 13
D-85247 Schwabhausen
Mail: office@elitex-gmbh.de
www.elitex-gmbh.de

Elitex GmbH and its affiliates referenced herein have made every reasonable effort to ensure the accuracy of the information contained in this instruction. Elitex GmbH cannot assure that this information is free of errors. For this reason, Elitex GmbH doesn't make any representation or offer any guarantee that such information is accurate, correct, reliable or current. Elitex GmbH reserves the right to make any adjustments to the information at any time. Elitex GmbH expressly disclaims any implied warranty regarding the information contained herein, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. Elitex GmbH only obligations are those stated in Elitex GmbH specifications, standard terms and conditions of sale. Elitex GmbH will be in no case liable for any incidental, indirect or consequential damages arising from or in connection with, including, but not limited to, the sale, resale, use or misuse of its products. Users should rely on their own judgment to evaluate the suitability of a product for a certain purpose and test each product for its intended application

Product and System patented for Elitex GmbH. © Copyright Elitex GmbH 2020 Version 2.1