



Application

The WGT is a sealing element for micro ducts. 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 WGT is made from a corrosion-resistant aluminum alloy with anodized surface coating¹⁾. The sealing gaskets have a safety breaking point, which release gasket under extreme pressure and thus prevents release of the WGT from micro duct.

Temperature range applies from -40°C to +70°C



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.

Technical Data

Feature	shut version	WGT 5	WGT 7	WGT 10*	WGT 12*	WGT 14	WGT 16	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]		≥8	≥13	≥50	≥50	≥50	≥50	≥50
tensile strength PowerClip® WGT against micro cable [N]		-	-	≥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	≥100 100-120	≥90 90-110	≥90 90-110
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

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

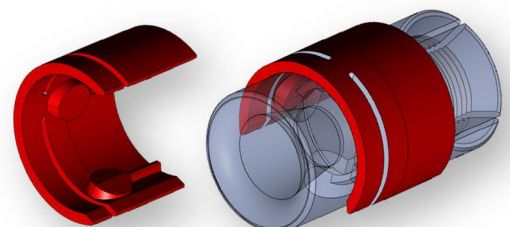
²⁾ Tolerances shall apply for micro ducts according to DIN EN 50411-6-1 und DIN EN 60794-5-ff

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)

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.

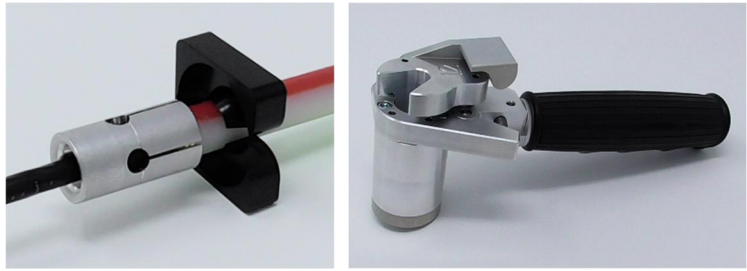


Table tools/accessories PowerClip®

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 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	-	-	-	-

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.



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.
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	12	13	35	12	13	36

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.

Elitex GmbH

Agricolastraße 3a
D-85247 Schwabhausen
Mail: office@elitex-gmbh.de
www.elitex-gmbh.de

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