

Application and features

The WGT® is a sealing, strain relief and end plug for microducts 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 microducts with various cable diameters. The slotted version suits in case of no access to end of cable or if cable was already installed (i.e. maintenance). Beside excellent sealing performance the WGT® also has a good strain and push relief for cable and microduct. With the optional PowerClip® the strain relief improve by clamping the strength members of the cable like aramid yarn. At the cable outlet, the WGT® has a cone for bend protection. The WGT® comes with a slotted sealing gasket and a filler clip (red part) for mechanical support of slot in WGT® body. The WGT® is made from a corrosion-resistant aluminum alloy¹. 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 and filler clip s1 (no-/little smoke) d1 (limited droplets). The WGT®, filler clip, PowerClip® and sealing gasket are halogen free according to DIN EN 60684-2. The WGT® exceeds the requirements of DIN EN 50411-2-8 ABF Microduct connectors and end plugs type 1. The WGT® complies with DIN VDE 0800 Part 720 Guideline of material for FTTx-Broadband Networks and the BMDV specifications "Material concept and specifications for passive infrastructure of broadband expansion".



Scope of delivery

Every WGT® housing comes with a slotted sealing gasket according to the selected cable size and a filler clip (red part).

Sealing gaskets

Sealing gaskets are available for common microducts and applicable cable diameters. Sealing gaskets are made from thermoplastic rubber (TPV) Santoprene™. The slotted WGT® comes with a slotted gasket. Select gasket according to the size of WGT® and cable diameter on the Internet and specify when ordering.

All available seals are listed at www.elitex-gmbh.de



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 5 mm, 7 mm and thin cables, the at least use of the PullClip is recommended.



LabelClip

The LabelClip is an accessory to identify microducts. Due to the clip fixation at the microduct, the LabelClip is easy to mount and held firmly in position. The LabelClip is rewriteable multiple times with permanent marker. Labels from common label printers stick well to the LabelClip and still can be removed. The LabelClip is available for microducts with outer diameters of 7/10/12/14/16/20mm.



Technical Data

Feature	slotted version	WGT 7 ⁵⁾	WGT 10 ^{*5)}	WGT 12 ^{*5)}	WGT 14 ⁵⁾	WGT 16 ⁵⁾	WGT 20
	Order No. Elitex Material-Nr. DT	01-031-03A 49290569	01-032-03A -	01-033-03A 40290568 40897685	01-036-03A -	01-034-03A -	01-056-03A -
Ø outside microduct tolerance ²⁾ [mm]		7 ±0.1	10 ±0.2	12 ±0.2	14 ±0.2	16 ±0.2	20 ±0.2
Ø cable [mm] for Ø microduct/wall thickness [mm]		1.0-3.1 7/1.5	1.0-5.7 10/2.0	2.0-6.6 12/2.0	6.0-8.8 14/2.0	6.0-11.0 16/2.0	4.5-12.0 20/2.5
Ø cable [mm] for Ø microduct/wall thickness [mm]		1.0-4.1 7/0.75	1.0-6.6 10/1.0	2.0-7.5 12/1.1	6.0-9.7 14/1.3	-	4.5-12.0 20/2.0
Ø outside WGT [mm]		10	14	17	19	22	26
length WGT [mm]		19	26	32	38	42	52
tensile strength WGT against micro cable [N]] Ø cable [mm]		≥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 microduct, add. ¼ turn ³⁾ [N]		≥70 70-180	≥100 100-180	≥120 120-230	≥140	≥160	≥180
tightness with cable ⁴⁾ , add. ¼ turn ³⁾ [bar]		≥1 1-8	≥1 1-8	≥1 1-8	≥1 1-5	≥1 1-5	≥1 1-5
Reaction to fire DIN EN 13501-1 Halogen free DIN EN 60684-2		A2 s1 d1 yes	A2 s1 d1 yes	A2 s1 d1 yes	A2 s1 d1 yes	A2 s1 d1 yes	A2 s1 d1 yes

Environmental and operating conditions comply with DIN EN 50411-2-8 ABF microduct connectors and end plugs – and ETSI EN 300 019-2-8 T8.1 Use in underground i.e. cable ducts.

* Approved for-funded broadband projects according to material concept of the German Network Government (BMDV)

¹⁾ The aluminum alloy with corrosion-resist 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 have no influence on the material properties, tightness or reusability.

²⁾ Tolerances shall apply for microducts according to DIN EN 50411-6-1 and 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

⁵⁾ Approved by Vodafone according to specification VFKD TS 104

WGT® 7/10/12 Approved by Deutsche Telekom according to TS SpeedNet-Microduct System

Table tools/accessories PowerClip®

PullClip	Order No.	Assembly Pliers	Order No.	PowerClip®	Order No.
WGT® 5mm	01-044-01 A	WGT® 5mm	-	-	-
WGT® 7mm	01-045-01 A 40367175	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 40367174	WGT® 12mm	01-040-01 A	WGT® 12mm	01-009-01 A 40838393
WGT® 14mm	01-048-01 A	-	-	-	-
WGT® 16mm	01-049-01 A	-	-	-	-

Elitex GmbH

Kreuzackerstraße 3

D-85232 Bergkirchen-GADA

Mail: office@elitex-gmbh.de

www.elitex-gmbh.de



WGT slotted Version

The information contained herein, including the illustrations and graphical representations, correspond to the current state of our knowledge and are correct and reliable to the best of our knowledge. However, they do not represent any binding assurance of properties. Such an assurance is only given by our product standards. The user of this product must decide on his own responsibility about its suitability for the intended use. Our liability for this product is governed exclusively by our General Terms and Conditions. Elitex specifications are subject to change without notice. In addition, Elitex reserves the right, without notice to the purchaser, to make changes in materials or workmanship that do not affect compliance with applicable specifications

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