Shut Version
WGT® 5/7/10/12/14/16/20
Water Gas Termination

Technical Datasheet

Application and features

The WGT® is a sealing element 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 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 microduct. 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 microduct. The WGT® is made from a corrosion-resistant aluminum alloy with anodized surface coating[1)]. 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. The WGT® exceeds the requirements of DIN EN 50411-2-8 ABF Micro tube connectors and end plugs type 1.

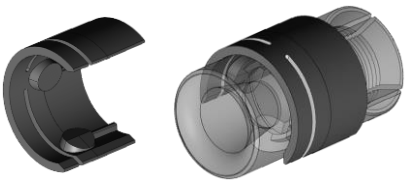
Scope of delivery

The scope of delivery includes the WGT® housing and the required seal.

Sealing gaskets

Sealing gaskets are available for common microducts and applicable cable diameters. The sealing gasket has two functions, it works as a blind plug for empty microducts and as a gasket for the cable. At the safety breaking point, the blind plug can be released to get the gasket for the cable. Sealing gaskets are made from thermoplastic rubber (TPV) Santoprene™. 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 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
∅ outside microduct tolerance[2)] [mm]	5 ±0,1	7 ±0.1	10 ±0.2	12 ±0.2	14 ±0.2	16 ±0.2	20 ±0.2
∅ cable [mm] for ∅ microduct/wall thickness [mm]	0.9-2.5 5/1.0	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
∅ cable [mm] for ∅ microduct/wall thickness [mm]	0.9-3.0 5/0.75	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
∅ 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] ∅ cabel [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 microduct, 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 Halogen free DIN EN 60684-2	A2 s1 d0 yes	A2 s1 d0 yes	A2 s1 d0 yes	A2 s1 d0 yes	A2 s1 d0 yes	A2 s1 d0 yes	A2 s1 d0 yes

Listed values apply for properly installed product according to installation instructions.
Temperature range for storage and operation applies from -40°C to +70°C

[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 microducts 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-Microduct-System (size WGT 7/10/12)

[5)] Approved by Vodafone according to specification VFKD TS 104

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

Table tools/accessories PowerClip®

PullClip	Order No.	Assembly Pliers	Order No.	PowerClip®	Order No.
WGT® 5mm	01-044-01 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	-	-	-	-

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WGT shut 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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