Masterflex SE · Postfach 20 06 62 · 45841 Gelsenkirchen · Germany

Declaration of Conformity

The new TRGS 727 standard herewith replaces the until now valid TRBS 2153 standard and will continue in its place.

Within the new TRGS 727, the aspirative and pneumatic conveyance using spiral hoses/ducting with a metal helix will be taken into account separately when in context with electrostatic charges.

The resulting updates for pneumatic conveyance (pressure-conveying) are as follows:

1. Only metallic, blank, uninsulated, non-covered wires may be used as support spiral/helix.
2. The support spiral/helix is to be grounded at both ends.
3. The spiral/helix wire diameter is between 1 mm and 2 mm.
4. The distance (layer thickness) between the inner hose lining surface and the spiral/helix wire surface is between 0.7 mm and 2 mm.
5. The gradient of the spiral/helix is no larger than 30 mm.
6. The spiral/helix is integrated into a homogenous material with a specific resistance of less than ρ ≤2.5 x 10^8 Ωm.
7. The inner diameter of the hose/ducting is between 50 mm and 160 mm.
8. The relative permittivity of the wall material is not greater than 5.

For other geometric arrangements, higher values of relative permittivity or for multi-layered hoses/ducting with a support spiral/helix, the upper limit value can be calculated for the permitted specific resistance of the wall material by means of simulation calculations under the assumption of a charging current density of 1 mA/m^2.

Based on these updates, MASTERFLEX SE has carried out a comprehensive series of testing, which has confirmed the suitability of the hoses for the wide range of application areas in accordance with the below mentioned matrix.

These results have been verified by the independent TÜV Süd institute in their technical report 713082091.

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		Dusts and bulk goods				Gases & liquids		
Hose	Art.No.	Zone 20, 21, 22 (inside) Pneumatic conveying of combustible & non-combustible dusts / bulk solids	Zone 20, 21, 22 (inside1) *3 Aspirative extraction of combustible dusts / bulk solids	Use in zone 20, 21, 22 (outside)	Zone 22 or no Zone Aspirative promotion	Zone 0, 1 & 2 (inside) Promotion of gases and flammable liquids	Use in Zone 0 (outside)	Use in Zone 1 & 2 (outside)
Master-PUR L-F Trivolution *2	305-xxx-101	✓	✓	✓	✓	✗	✗	✓
Master-PUR L Trivolution	110-xxx-401	✓	✓	✓	✓	✗	✗	✓
Master-PUR H Trivolution	111-xxx-401	✓	✓	✓	✓	✗	✗	✓
Master-PUR HÜ Trivolution	112-xxx-101	✓	✓	✓	✓	✗	✗	✓
Master-PUR HÜ-S Trivolution	112-xxx-902/903	✓	✓	✓	✓	✗	✗	✓
Master-PUR HX Trivolution	114-xxx-101	✓	✓	✓	✓	✗	✗	✓
Master-PUR L-F EL	310-060-207	✓	✓	✓	✓	✓	✓	✓
Master-PUR L-EL	110-xxx-207	✓	✓	✓	✓	✓	✓	✓
Master-PUR H-EL	111-xxx-207	✓	✓	✓	✓	✓	✓	✓
Master-PUR HX-EL	114-xxx-207	✓	✓	✓	✓	✓	✓	✓
Master-PUR L-MHR A	110-xxx-798	✓	✓	✓	✓	✗	✗	✓
Master-PUR H-MHR A	111-xxx-798	✓	✓	✓	✓	✗	✗	✓
Master-PUR HX-S	117-xxx-101	✓	✓	✓	✓	✗	✗	✓
Master-PUR Performance	123-xxx-101	✓	✓	✓	✓	✗	✗	✓
Master-PUR Inline	119-xxx-104	✓	✓	✓	✓	✗	✗	✓
Polderflex PUR A	118-xxx-701	✓	✓	✓	✓	✗	✗	✓
Master-PE L-F EL	668-xxx-207	✓	✓	✓	✓	✓	✓	✓
Master-PE L-EL	180-xxx-207	✓	✓	✓	✓	✓	✓	✓
Master-PUR L-F Food A	310-xxx-571/581	✗	✓	✓	✓	✗	✗	✓
Master-PUR L Food A	110-xxx-571/581	✓	✓	✓	✓	✗	✗	✓
Master-PUR H Food A	111-xxx-571/581	✓	✓	✓	✓	✗	✗	✓
Master-PUR HX Food A	114-xxx-571/581	✓	✓	✓	✓	✗	✗	✓
Polderflex PUR Food A	118-xxx-571/581	✓	✓	✓	✓	✗	✗	✓
Master-PUR L Food A Multi	110-xxx-571	✓	✓	✓	✓	✗	✗	✓
Master-PUR H Food A Multi	111-xxx-571	✓	✓	✓	✓	✗	✗	✓
Master-PUR HX Food A Multi	114-xxx-571	✓	✓	✓	✓	✗	✗	✓
Polderflex PUR Food A Multi	118-xxx-571	✓	✓	✓	✓	✗	✗	✓
Master-PVC L-F EL *1, *2	340-xxx-207	✓	✓	✓	✓	✓	✓	✓
Master-Clip VINYL A *1, *2	211-xxx-307	✗	✓	✓	✓	✗	✗	✓
Master-Clip VINYL EL *1, *2	260-xxx-207	✗	✓	✓	✓	✓	✓	✓
Master-Clip VITON EL *1, *2	222-xxx-207	✗	✓	✓	✓	✓	✓	✓
Master-Clip PTFE EL *1, *2	263-xxx-207	✗	✓	✓	✓	✓	✓	✓
Master-Clip PTFE H-EL *1, *2	261-xxx-207	✗	✓	✓	✓	✓	✓	✓
Master-Clip PTFE S-EL *1, *2	262-xxx-216	✗	✓	✓	✓	✓	✓	✓
Master-VAC EL *1	670-xxx-207	✗	✓	✓	✓	✓	✓	✓

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*1 Depending on the construction type, not suitable for pneumatic conveyance.
*2 depending on the construction type, not suitable for the conveyance of liquid media.
*3 Please pay attention to Clip gradients < 30 mm, where a non-electro-conductive material is in contact with Ex-zones.

The above-described items of the Declaration are in accordance with the relevant harmonization legislation of the Union: **Directive 94/9 / EC (until 19 April 2016) and Directive 2014/34 / EU (from 20 April 2016)**

Gelsenkirchen, 6th April 2017

Created by: MASTERFLEX SE

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