

OSNALINE® Specification for single plastic tubes with outer sheath



78P ER Rev. 0

1.0 Content

The specification describes the minimum requirements for single plastic tubes with outer sheath.

2.0 Design

Single plastic tubes with outer sheath contain a plastic tube with an extruded seamless outer jacket of plastics.



3.0 Standards

Tube materials:

PE-LD acc. to 78P PE-LD

PE-HD acc. to 78P PE-HD

PA 12-HIPHL acc. to 78P PA12-HIPHL

PTFE acc. to 78P PTFE

Outer jacket material:

Single plastic tubes with outer sheath are covered with an extruded seamless outer jacket of plastics, black or coloured **PVC YM3 (lead-free)** acc. to DIN VDE 0207 Part 5.

Other materials on special inquiry

PVC YM4 (lead-free) acc. to DIN VDE 0207

Part 5, black, in combination with PTFE tubes

PE-LD acc. to VDE 0207 Part 3, black or coloured, halogenfree, in combination with PA tubes.

4.0 Delivery form

Tube ends are capped and sealed against dust and moisture.

Outer sheath printed with dimension, material and production code.
Packing and delivery length see table 1.

5.0 Quality inspection

- Dimensions
- Pressure test

6.0 Characteristics

- Protection against mechanical impacts
- Protection against environments
- Wide temperature range
- Flexible, easy to install
- Coloured available

7.0 Application

- Control lines for instruments and control units

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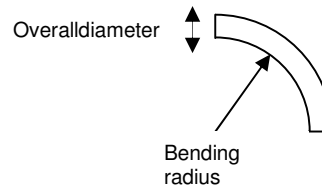
Table 1: Manufacturing range

Number of tubes and dimensions [mm] ¹⁾	Jacket thickness [mm]	Overall diameter [mm] ²⁾	Tolerance [mm] ²⁾	Weight [Kg/100m]	Max. Length [m] packing		
					250	500	1000
1 x 6 x 1	1,0	8	+0,2/0	5	B	A	A
1 x 8 x 1	1,0	10	+0,2/0	6	E	A	D
1x 10 x 1	1,0	12	+0,2/0	8	A	D	D
1 x 12 x 1	1,0	14	+0,2/0	9	D	D	D
1 x 6,35 x 1,02	1,0	8,4	+0,2/0	5	B	A	A
1 x 9,52 x 1,02	1,0	11,5	+0,2/0	6	A	D	D
1x 9,52 x 1,57	1,0	11,5	+0,2/0	8	A	D	D
1 x 12,7 x 1,57	1,0	14,7	+0,2/0	9	D	D	D

Packing:
 A - Reel Ø 500mm
 B - Box 480x480x200mm
 C - Box 440x440x115mm
 D - Reel Ø 1000mm

Table 2: Bending

Type	Permissible bending radius
Tube bundle	7 x Overall diameter
Tube PE-HD, PA	6 x Overall diameter
Tube PE-LD	5 x Overall diameter
Tube PTFE	7 x Overall diameter



¹⁾ Differing dimensions on request.

²⁾ Values given are nominal values within the limits of normal manufacturing tolerances.