

OSNALINE® Specification for tube bundles with plastic tubes and electrical control lines

78P RB ST Rev 0



1.0 Content

The specification describes the minimum requirements for tube bundles with plastic tubes and electrical control lines.

2.0 Design

Tube bundles content one or more continuously numbered plastic tubes and electrical control lines according to customer's request.

The tubes, electrical control lines and separate control lines are stranded and wrapped with a polyester foil. The tube bundle is covered with an outer jacket of extruded seamless plastics.



3.0 Standard

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:

Tube bundles 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,

PE-LD acc. to VDE 0207 Part 3

black or coloured, halogen-free

TPU acc. to VDE 0282 Part 10

black, halogen-free

Inner jacket halogen-free

4.0 Delivery form

Bundle ends are capped and sealed against dust and moisture.

Outer sheath printed with dimension, material,

length marking 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 external influences
- Wide temperature range
- Flexible, easy to install
- Coloured available

7.0 Application

- Pneumatic control lines for instrumentation and control technology

8.0 Special design

- Tube bundle with different tube dimensions
- Others on special inquiry

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Tabelle 1: Manufacturing range

Number of tubes and dimensions [mm] ¹⁾	Jacket thickness [mm]	Overall diameter [mm] ²⁾³⁾	Tolerance [mm] ²⁾	Weight [Kg/100m] ³⁾	Max. length [m]	Packing
1 x 6 x 1	1,0	18	+/- 2,0	11	250/500	Wooden drum
2 x 6 x 1	1,4	18,5	+/- 2,0	32	250/500	Wooden drum
3 x 6 x 1	1,4	20,5	+/- 2,0	35	250/500	Wooden drum
4 x 6 x 1	1,6	22	+/- 2,0	36	250/500	Wooden drum
1 x 8 x 1	1,0	22	+/- 2,0	12	250/500	Wooden drum
2 x 8 x 1	1,6	23	+/- 2,0	47	250/500	Wooden drum
3 x 8 x 1	1,6	26	+/- 2,0	48	250/500	Wooden drum
4 x 8 x 1	1,8	28	+/- 2,0	53	250/500	Wooden drum
1 x 10 x 1	1,2	27	+/- 2,0	14	250/500	Wooden drum
2 x 10 x 1	1,8	28	+/- 2,0	31	250/500	Wooden drum
3 x 10 x 1	1,8	32	+/- 2,0	66	250/500	Wooden drum
4 x 10 x 1	2,0	34,5	+/- 2,0	68	250/500	Wooden drum
1 x 12 x 1	1,2	31	+/- 2,0	15	250/500	Wooden drum
2 x 12 x 1	2,0	33	+/- 2,0	89	250/500	Wooden drum
3 x 12 x 1	2,2	36,5	+/- 2,0	91	250/500	Wooden drum
4 x 12 x 1	2,2	40	+/- 2,0	97	250/500	Wooden drum

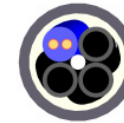
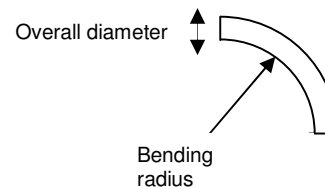


Tabelle 2: Bending

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



- ¹⁾ Differing dimensions on request.
- ²⁾ Values given are nominal values within the limits of normal manufacturing tolerances.
- ³⁾ Dimensions and weights refer to one control line with a Ø of 7mm.