

MICRODUCT NESDUCT DB N X 14/10 MM





Application Microduct / duct bundle for direct buried installation or installation in existing

protective pipes or cable shafts.

Construction Material The individual ducts are made of HDPE.

Colour coding The ducts are colour-coded according to customer

specifications, FIN 2012, ANSI/TIA, IEC or other.

Trace wire Trace wires are available when needed.

Outer sheath The duct bundles are sheathed with a common HDPE

sheath. The nominal sheath thickness is 1.0 ± 0.1 mm. Sheath marking is printed on one meter intervals.

Nominal dimensions of bare duct without outer sheath					
Duot type	Diameter [mm]		Maight [kg/km]	Topoilo etropath	
Duct type	OD	ID	Weight [kg/km]	Tensile strength	
14/10 mm	14.0 ± 0.1	10,0 ± 0,1	72	1100 N	

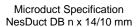
Nominal dimensions of ducts and duct bundles with outer sheath						
Co	onfiguration	Diameter [mm]		Woight [kg/km]	Tanaila atranath	
Count	Grouping	Duct OD	Duct ID	Total OD	Weight [kg/km]	Tensile strength
1	1 x 14/10 mm	$14,0 \pm 0,1$	$10,0 \pm 0,1$	16,0	117	1200 N
2	2 x 14/10 mm	$14,0 \pm 0,1$	$10,0 \pm 0,1$	30,0	215	2100 N
3	3 x 14/10 mm	$14,0 \pm 0,1$	$10,0 \pm 0,1$	30,0	301	2940 N
4	4 x 14/10 mm	$14,0 \pm 0,1$	$10,0 \pm 0,1$	36,0	386	3780 N
5	5 x 14/10 mm	$14,0 \pm 0,1$	$10,0 \pm 0,1$	44,0	470	4600 N
7	7 x 14/10 mm	$14,0 \pm 0,1$	10,0 ± 0,1	44,0	628	6150 N

Temperature ranges				
Temperature range	Installation	-15 - +40 °C		
	Transport, storage and operation	-45 - +60 °C		

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Mechanical characteristics						
Characteristics	Test Methods	Descriptions		Requirements		
Tensile strength	IEC 60794-1-21, method E1	Test length	>1 m	Load = 9,81 x W [N]		
(*)		Duration	10 min	W = mass of 1 km [kg/km]		
Bending (cold)	IEC 60794-1-21, method E11B	Temperature	-15 °C	Mandrel diameter		
(*)		Cycles	10	30 x OD		
Repeated	IEC 60794-1-21, method E6	Load	20 N	Bending diameter		
bending		Cycles	35	30 x OD		
(*)		Time per cycle	~2 s			
Impact	IEC 60794-1-21, method E4	Anvil diameter	50 mm	Impact energy 15 J		
(*)		Surface radius	300 mm			
		Recovery time	1 hour			
Torsion	IEC 60794-1-21, method E7	Test length	1 m	Number of turns ±1 (360° in both directions)		
(*)		Load	20 N			
		Cycles	5			
Kink	IEC 60794-1-21, method E10	Temperature	20 °C	Loop diameter		
(*)				20 x OD		
Crush	IEC 60794-1-21, method E3	Duration	15 min	Load (plate/plate)		
(*)		Recovery time	1 hour	2000 N		
Pressure	IEC 60794-1-22, method F13	Test length	1 m	Pressure (water) 25 bar		
withstand		Temperature	20 °C			
(**)		Duration	30 min			

Acceptance criteria:

- (*) After the test, under visual examination, without magnification, there shall be no damage and the tested sample shall pass the inner clearance test (***). If a recovery time is defined, the inner clearance test is done after the recovery time.
- (**) Under visual examination, without magnification, there shall be no damage to the tested microduct.
- (***) Inner clearance test is done by passing a metal sphere through the tested section of microduct or microduct assembly. The minimum diameter of the sphere is 85% of the nominal microduct bore diameter (ID). The test is passed if the sphere passes through the microduct.

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