



NOVOMICRO FRLSOH 5 x 0.75 mm UD

CHARACTERISTICS	UNIT	NOMINAL VALUE	TOLERANCES OR REQUIREMENTS	STANDARD
Material				Special flame retardant compound PE based
Environmental aspects				No danger regarding toxicological and ecological considerations
Weight	kg/km	16 (smooth)		ST-NVTCH-004
Outside diameter	mm	5	±0.1	ST-NVTCH-004
Inside diameter	mm	3.5	±0.3	ST-NVTCH-004
Cable diameter	mm	2.5	max	Novotech recommendation
Thickness	mm	0.75	±0.1	ST-NVTCH-004
Ovality	%	5	≤ 5	ST-NVTCH-004
Integrity inside diameter	--	Calibrated ball bearing	--	Novotech internal method
Crushing resistance	%	250 N/100mm /60sec.	≤ 15	EN 50411-6-1
Friction coefficient	--	0.07 (µcableND) UD	≤ 0.1	Novotech internal method
Resistance to hydraulic pressure	MPa	8 MPa/ 20°C	≥ 1 h	EN 921
	MPa	8 MPa/ 20°C after ageing 12 weeks / 60°C	≥ 1 h	IEC 60794-5-10
	bar	24 bar / 20°C	≥ 1 h	EN 921
Vertical undulation	mm	5	≤ 5	Novotech internal method
Horizontal undulation	cm	5	≤ 5	
Tensile strength at yield	MPa	11	≥ 9	T 54 072 (classe5.2) EN 638
Elongation at break	%	350	≥ 125	ISO 527 (fig. 3)
Tensile resistance on pipe	N	110	> 80	Novotech internal method

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NOVOMICRO FRLSOH 5 x 0.75 mm UD

CHARACTERISTICS	UNIT	NOMINAL VALUE	TOLERANCES OR REQUIREMENTS	STANDARD
Flame test	sec. sec. mm m	30 60 Pass 1.11	Extinction ≤ 30 Flame time 50 < Charring < 540 Max 2.5	IEC 61386-1 IEC 60332-1 IEC 60332-3-24
Smoke density	% Ds VOF4	97 189 42.5	≥ 60 ≤ 350 ≤ 200	IEC 61034-1/2 NFC 20 902-2-1
Acidity of gas	pH % Hcl $\mu\text{S/cm}$	6.06 0 4.8	≥ 4.3 ≤ 0.5 ≤ 100	IEC 60754-2 IEC 60754-1 IEC 60754-2

Identification: White with marking of text or numbers on request.

Marking: " 0000 m WAVIN 35 NOVOMICRO FRLSOH 5x0.75*UD YYYY/MM/DD "

Packaging: Lost plastic drum (400 x 202 x 340) mm.
Length: 500 m.

Accessories: Straight connectors / Endstop caps / Circumferential duct cutter.



NOVOMICRO FRLSOH 7 x 1.5 mm UD-UF

CHARACTERISTICS	UNIT	NOMINAL VALUE	TOLERANCES OR REQUIREMENTS	STANDARD
Material				Special flame retardant compound PE based
Environmental aspects				No danger regarding toxicological and ecological considerations
Ouside diameter	mm	7	±0.1	ST-NVTCH-001-98
Inside diameter	mm	4	±0.3	ST-NVTCH-001-98
Cable diameter	mm	2.7	max	Novotech recommandation
Thickness	mm	1.5	±0.1	ST-NVTCH-001-98
Ovality	%	5	≤ 5	ST-NVTCH-001-98
Integrity inside diameter	--	Calibrated ball bearing	--	Novotech internal method
Crushing resistance	%	Pass	≤ 15	IEC 60794-1-2
Minimum bending radius	mm	70	≤ 70	Novotech internal method
Friction coefficient	--	0.1	≤ 0.1	Novotech internal method
Resistance to hydraulic pressure	MPa	8 MPa/ 20°C	≥ 1 h	EN 921
	MPa	8 MPa/ 20°C after ageing 12 weeks / 60°C	≥ 1 h	IEC 60794-1-2
	bar	40 bar / 20°C	≥ 1 h	EN 921

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NOVOMICRO FRLSOH 7 x 1.5 mm UD-UF

CHARACTERISTICS	UNIT	NOMINAL VALUE	TOLERANCES OR REQUIREMENTS	STANDARD
Vertical undulation	mm	5	≤ 5	Novotech internal method
Horizontal undulation	cm	5	≤ 5	
Tensile strength at yield	MPa	9	≥ 9	T 54 072 (classe 5.2) EN 638
Elongation at break	%	125	≥ 125	ISO 527 (fig. 3)
Tensile resistance on pipe	N	210	≥ 210	Novotech internal method
Flame test	sec. sec. mm	30 60 Pass	Extinction ≤ 30 Flame time 50 < charring < 540	IEC 61386-1 IEC 60332-1
Acidity of gas	pH % HCl	7.48 0	≥ 4.3 ≤ 0.5	IEC 60754-2 IEC 60754-1

Identification: White with marking of text or numbers on request.

Packaging: Waterproof wooden drum (700 x 520 x 460) mm.
Length: 500 m.

Waterproof wooden drum (1000 x 520 x 460) mm.
Length: 2000 m.

Accessories: Straight connectors / Endstop caps / Circumferential duct cutter.



NOVOMICRO FRLSOH 10 x 1 mm UD

CHARACTERISTICS	UNIT	NOMINAL VALUE	TOLERANCES OR REQUIREMENTS	STANDARD
Material				Special flame retardant compound PE based
Environmental aspects				No danger regarding toxicological and ecological considerations
Weight	kg/km	30 (ribbed)		ST-NVTCH-004
Outside diameter	mm	10	±0.1	ST-NVTCH-004
Inside diameter	mm	8.1	±0.2	ST-NVTCH-004
Cable diameter	mm	6.0	max	Novotech recommendation
Thickness	mm	1	-0.1/+0.0	ST-NVTCH-004
Ovality	%	5	≤ 5	ST-NVTCH-004
Integrity inside diameter	--	Calibrated ball bearing	--	Novotech internal method
Crushing resistance	%	450 N/100mm /60sec.	≤ 15	EN 50411-6-1
Friction coefficient	--	0.09	≤ 0.1	Novotech internal method
Resistance to hydraulic pressure	MPa	8 MPa/ 20°C	≥ 1 h	EN 921
	MPa	8 MPa/ 20°C after ageing 12 weeks / 60°C	≥ 1 h	IEC 60794-5-10
	bar	16 bar / 20°C	≥ 1 h	EN 921
Vertical undulation	mm	5	≤ 5	Novotech internal method
Horizontal undulation	cm	5	≤ 5	
Tensile strength at yield	MPa	11	≥ 9	T 54 072 (classe 5.2) EN 638
Elongation at break	%	350	≥ 125	ISO 527 (fig. 3)
Tensile resistance on pipe	N	250	> 230	Novotech internal method

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NOVOMICRO FRLSOH 10 x 1 mm UD

CHARACTERISTICS	UNIT	NOMINAL VALUE	TOLERANCES OR REQUIREMENTS	STANDARD
Flame test	sec. sec. mm	30 60 Pass	Extinction ≤ 30 Flame time 50 < Charring < 540	IEC 61386-1 IEC 60332-1
Smoke density	% Ds VOF4	62 243 120	≥ 60 ≤ 350 ≤ 200	IEC 61034-1/2 NFC 20 902-2-1
Acidity of gas	pH % Hcl $\mu\text{S/cm}$	7.48 0 60.42	≥ 4.3 ≤ 0.5 ≤ 100	IEC 60754-2 IEC 60754-1 IEC 60754-2

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Marking: " 0000 m WAVIN 35 NOVOMICRO FRLSOH 10x1*UD YYYY/MM/DD "

Packaging: Watertight wooden drum (1000 x 520 x 460) mm.
Length: 2000 m.

Accessories: Straight connectors / Endstop caps / Circumferential duct cutter.



NOVOMICRO FRLSOH 16 x 1.6 mm UD

CHARACTERISTICS	UNIT	NOMINAL VALUE	TOLERANCES OR REQUIREMENTS	STANDARD
Material				Special flame retardant compound PE based
Environmental aspects				No danger regarding toxicological and ecological considerations
Weight	kg/km	79 (ribbed)		ST-NVTCH-004
Outside diameter	mm	16	±0.1	ST-NVTCH-004
Inside diameter	mm	12.8	±0.3	ST-NVTCH-004
Cable diameter	mm	9.3	max	Novotech recommendation
Thickness	mm	1.6	±0.1	ST-NVTCH-004
Ovality	%	5	≤ 5	ST-NVTCH-004
Integrity inside diameter	--	Calibrated ball bearing	--	Novotech internal method
Crushing resistance	%	450 N/100mm /60sec.	≤ 15	EN 50411-6-1
Friction coefficient	--	0.1	≤ 0.1	Novotech internal method
Resistance to hydraulic pressure	MPa	8 MPa/ 20°C	≥ 1 h	EN 921
	MPa	8 MPa/ 20°C after ageing 12 weeks / 60°C	≥ 1 h	IEC 60794-5-10
	bar	16 bar / 20°C	≥ 1 h	EN 921
Vertical undulation	mm	5	≤ 5	Novotech internal method
Horizontal undulation	cm	5	≤ 5	
Tensile strength at yield	MPa	11	≥ 9	T 54 072 (classe 5.2) EN 638
Elongation at break	%	450	≥ 125	ISO 527 (fig. 3)
Tensile resistance on pipe	N	790	> 610	Novotech internal method

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NOVOMICRO FRLSOH 16 x 1.6 mm UD

CHARACTERISTICS	UNIT	NOMINAL VALUE	TOLERANCES OR REQUIREMENTS	STANDARD
Flame test	sec. sec. mm	30 60 Pass	Extinction ≤ 30 Flame time 50 < Charring < 540	IEC 61386-1 IEC 60332-1
Smoke density	% Ds VOF4	60 243 120	≥ 60 ≤ 350 ≤ 200	IEC 61034-1/2 NFC 20 902-2-1
Acidity of gas	pH % Hcl $\mu\text{S/cm}$	7.48 0 60.42	≥ 4.3 ≤ 0.5 ≤ 100	IEC 60754-2 IEC 60754-1 IEC 60754-2

Identification: White with marking of text or numbers on request.

Marking: " 0000 m WAVIN 35 NOVOMICRO FRLSOH 16x1.6*UD YYYY/MM/DD "

Packaging: Watertight wooden drum (1100 x 520 x 460) mm.
Length: 1000 m.

Accessories: Straight connectors / Endstop caps / Circumferential duct cutter.