



**MICRODUCTS
OPTICAL CABLE PROTECTION
FIBRE-TO-THE-X**





FAST – EFFICIENT – RELIABLE

ABOUT US

Polytech Industrie Kft. have been one of the leading HDPE cable protection pipe manufacturers of Hungary for 30 years. We are proud that Polytech Industrie pipes are chosen by a number of well-known and recognised domestic and foreign companies operating in the fields of telecommunications, energy supply, railway, road and tunnel construction.



Our company responds flexibly to the market demand changes due to technological development – including quick construction of optical cable networks. For that reason we commissioned our microduct manufacturing line in November 2017, which allows us to offer our customers a wide range of microducts necessary for the construction of optical networks.

Our company has been continuously expanding their product range as well as introducing new technologies. Due to our persistence and high demands on ourselves, our name has become a guarantee for reliable quality, excellent consultancy and punctual delivery services.



FTTX – MICRODUCTS

Microducts are pipes with very small diameters, by means of which cable networks can be ideally installed by pulling or blowing the optical cables into the ducts. Among the extremely beneficial properties of the microducts are their small diameters of 4 to 20 mm, their flexibility and very good tensile strength. All these properties allow the blow-in of cables on long distances. The use of bundled microducts allows the layout of optical cable networks that can be expanded easily, where the individual ducts can be branched off to the desired place if necessary. Due to their low construction costs, the installation of microduct networks is getting more preferable compared to traditional cable protection pipe networks.



MICRODUCT
data sheet



PRODUCT ASSORTMENT

The **SpeedPol** microducts manufactured by our company are made with different wall thicknesses adjusted to the various methods of use. The thin-walled microducts can be pulled or blown into empty or cable containing HDPE pipes. The direct-bury microducts can either be directly laid into the ground by ploughing them in, or cut into the asphalt pavement.

Property	Value	Tolerance	Standard
Material	HDPE polyethylene		
Density	> 0,95 g/cm ³		EN ISO 1183
MFR _{190°C/5kg} (flow index)	0,1-1,0 g/10 min		EN ISO 1133
Ovality / coiled	max 5%		
Blowing pressure	10 bar (thinwall) 16 bar (direct bury)		
Elongation at rupture	> 350 %		
UV resistance	1 year (assuming Central European climate)		
Bending radius	>20 x OD, at 20 °C; >35 x OD, at 10 °C; >50 x OD, at 0 °C		
Testing pressure	12 bar, 2 hours, 35 °C		
Tensile strength	14 N/mm ²		
Colour	transparent, with coextruded stripes		
Printing	MICRODUCT POLYTECH PEHD outer diameter x wall thickness production date, shift, machine, metre (repeated at intervals of 1m)		
Colour of printing	black		



SPEEDPOL POLYTECH MICRODUCT

For telecommunication use

outer diameter	wall thickness	m/drum	drums/truck	drums/pallet	m/drum	drums/truck	drums/pallet	direct bury	
								yes	no
		narrow drum 120/40/40			wide drum 120/40/60				
7	0,75	6 000	88	4					•
7	1,50	6 000	88	4				•	
8	1,00	5 000	88	4					•
10	1,00	3 000	88	4					•
10	2,00	3 000	88	4				•	
12	1,00	2 000	88	4	3 500	66	3		•
12	1,10	2 000	88	4	3 500	66	3		•
12	2,00	2 000	88	4	3 500	66	3	•	
14	1,30	1 500	88	4	2 500	66	3		•
14	2,00	1 500	88	4	2 500	66	3	•	
16	1,50	1 200	88	4	1 800	66	3		•
16	2,00	1 200	88	4	1 800	66	3	•	
18	1,50	1 000	88	4	1 400	66	3		•
18	2,00	1 000	88	4	1 400	66	3	•	
20	2,00	750	88	4	1 200	66	3		•
20	2,50	750	88	4	1 200	66	3	•	

Outer diameter: 7mm-20mm
 Outside smooth, inside ribbed
Transparent, with 4 coloured stripes, colour code:
 According to Standard DIN/VDE 0888
Material quality: HDPE virgin material
UV resistance: 1 year (assuming Central European climate)



ONE-WAY WOODEN DRUMS

	outer Ø	core Ø	width	weight
narrow drum	120 cm	40 cm	40 cm	10 kg
wide drum	120 cm	40 cm	60 cm	10 kg





SPEEDPOL POLYTECH MULTIDUCTS



Wall thickness of bundling foil: 0,8mm ± 0,2 mm
 Colour of bundling foil: orange
 Colour: transparent, with 4 coloured stripes
 Delivery: on returnable or one-way drums
 UV resistance: 1 year (assuming Central European climate)

Product type		on one-way drum		on returnable drum
		120/40/40	120/40/60	240/120/120
	2x7 mm	2 000	2 500	x
	2x10 mm	900	1 500	x
	2x12 mm	850	1 250	x
	2x14 mm	650	1 000	x
	3x12 mm	x	x	3 500
	3x14 mm	x	x	2 500
	3x16 mm	x	x	1 800
	3x20 mm	x	x	1 200
	4x12 mm	x	x	3 300
	4x14 mm	x	x	2 500
	4x16 mm	x	x	1 800
	4x20 mm	x	x	1 200
	6x14 mm	x	x	1 500
	6x16 mm	x	x	1 200

Product type		on one-way drum		on returnable drum
		120/40/40	120/40/60	240/120/120
	7x7 mm	x	x	5 000
	7x10 mm	x	x	3 250
	7x12 mm	x	x	2 200
	7x14 mm	x	x	1 500
	7x16 mm	x	x	1 200
	12x7 mm	x	x	3 800
	12x10 mm	x	x	1 700
	12x12 mm	x	x	1 050
	9x7 mm + 1x12 mm	x	x	3 500
	9x7 mm + 1x14 mm	x	x	2 500
	24x7 mm + 1x14 mm	x	x	1 500
	12x7 mm + 1x14 mm	x	x	2 500

FAST – EFFICIENT – RELIABLE




QUALITY ASSURANCE


Our company's main purpose is to ensure our customers' satisfaction, and therefore special emphasis is laid on our product quality. Our modern, well-equipped measuring lab also allows us to perform tests required by Standard DIN EN 16874. Due to the stringent quality control procedure used by our company, only products of excellent quality complying with the quality requirements are supplied to our customers. We have been successfully operating quality assurance system EN ISO 9001:2015 for years.






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