

# Straight and reducer microtube connectors

## FP-ZM-R, FP-ZM-I series

Elements for joining thick-walled and thin-walled microtubes.



Straight microtube connector

### main features:

- straight connectors FP-ZM-I and reducer connectors FP-ZM-R for connecting single microtubes;
- enable easy extension of microtube sections and branching of microtube bundles;
- reducer connectors designed for joining microtubes of different external diameters but the same internal diameter (joining thin-walled microtubes with thick-walled microtubes);
- simple snap-on installation without any additional tools;
- reusable connectors for easy disassembly and reassembly;
- each connector is equipped with two snap-on clips to prevent accidental separation;
- due to the absence of metal parts, can be used directly in the ground;
- resistant to weak acids of typical concentrations found in soils;
- resistant to the action of liquid lubricants and other substances present in cable ducts;
- pressure resistance sufficient for pneumatic microcable installation method.

### market segments:



## FP-ZM-R, FP-ZM-I series

### technical parameters:

FP-ZM-R-	7/5N-KB	10/7N-KB	12/10N-KB	14/12N-KB
microtube outside diameter 1 [mm]	7	10	12	14
microtube outside diameter 2 [mm]	5	7	10	12
microtube inside diameter [mm]	3.5	5.5-6	8	10
dimensions (length × diameter) [mm]	41 x 13.5	45 x 17	50 x 20.5	56 x 23
pressure resistance [bar]	20			
max. pull force [N]	100	150	300	530
max. crushing force [N]	3,000	3,000	4,000	5,000
application temperature range [°C]	-20 to +50			
design	polyamide / polyacetal / NBR			

FP-ZM-I	7/4N-KB	12/8N-KB	12/10N-KB	14/10N-KB
microtube outside diameter [mm]	7	12	12	14
microtube inside diameter [mm]	4	8	10	10
dimensions (length × diameter) [mm]	42 x 17	52 x 23	52 x 23	60 x 25.5
pressure resistance [bar]	20			
max. pull force [N]	150	530	530	1,000
max. crushing force [N]	3,000	5,000	5,000	5,000
application temperature range [°C]	-20 to +50			
design	polyamide / polyacetal / NBR			