



# Microduct Assembly 7/3.5 + 14/10mm

TWD 7/3.5 + 14/10mm, Hybrid, KNZ

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## Features

- For direct burial
- 7/3.5 mm and 14/10mm microducts
- 16-way, 19-way and 22-way assemblies
- Low friction inner surface

## Application

The thick walled microduct bundles consist of a number of microducts with an inner low friction surface that enables installation of air-blown fiber units, nano cables or micro cables. The thick inner wall of the microducts allow for installation directly into the ground without the need for additional protection.

## Design

The duct assemblies are available in configurations with 16, 19 and 22 microducts. 7/3.5 mm microducts are optimized for installing air-blown fibres and nano cables, and the 14/10 mm microducts are for nano and micro cables. The microducts have a low-friction inner surface for the best blowing performance.

## Product Information

Microducts and outer sheath: HDPE

## Technical Information

<b>Color Code</b>	KNZ
<b>Temperature, Operation [°C]</b>	-40 to +60
<b>Temperature, Storage [°C]</b>	-40 to +60
<b>Temperature, Installation [°C]</b>	-20 to +50
<b>Conformance</b>	<p><b>Abrasion:</b> IEC 60794-1-2-E2B(1)</p> <p><b>Kink:</b> IEC 60794-1-2-E10, 20 x outer diameter</p> <p><b>Impact:</b> IEC 60794-1-2-E4</p> <p><b>Crush:</b> IEC 60794-1-2-E3</p> <p><b>Tensile:</b> IEC 60794-1-2-E</p> <p><b>Bend:</b> IEC 60794-1-2-E11A</p> <p><b>Torsion:</b> IEC 60794-1-2-E</p> <p><b>Flexibility:</b> IEC 60794-1-2-E8</p> <p><b>Inner Clearance:</b> IEC 60794-5-20, IEC 60794-5-10, Ann. D</p>

### Marking

Duct assemblies have markings showing the type and tube length. The individual microducts are identified by their colors.

Different colours are used according to KNZ standard.

For duct assemblies with >12 ducts, the first 12 coloured ducts are marked with “1” and the following ducts are marked with “2”.

The assemblies come with a green outer sheath, or with a customised outer sheath colour by special order.

### Technical Details

KNZ Microducts 4-way	1 Green 1	2 White 1	3 Blue 1	4 Red 1																				
KNZ Microducts 7-way	1 Green 1	2 White 1	3 White 2	4 Yellow 1	5 Yellow 2	6 Blue 1	7 Red 1																	
KNZ Microducts 12-way	1 Green 1	2 White 1	3 Red 1	4 Green 2	5 Yellow 1	6 Yellow 2	7 Yellow 3	8 Yellow 4	9 Blue 1	10 Blue 2	11 Blue 3	12 Red 2												
KNZ Microducts 24-way	1 Green 1	2 White 1	3 White 2	4 White 3	5 White 4	6 White 5	7 White 6	8 White 7	9 Red 1	10 Green 2	11 Yellow 1	12 Yellow 2	13 Yellow 3	14 Yellow 4	15 Yellow 5	16 Yellow 6	17 Yellow 7	18 Blue 1	19 Blue 2	20 Blue 3	21 Blue 4	22 Blue 5	23 Blue 6	24 Red 2

KNZ Korea - New Zealand Color Code Chart for Microduct Assemblies

### Articles 4

Article name	Color	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Dimensions [mm]	Weight [kg/km]	Length [m]
<b>Microduct 14x7/3.5 + 2x14/10</b> 2/MPB30279/16	Red	14x7/3.5 + 2x14/10	700	7000	2500	15	40.92	40.92x30	646	2000
<b>Microduct 16x7/3.5 + 3x14/10</b> 2/MPB30279/19	Red	16x7/3.5+3x14/10	700	4500	2500	15	44	—	800	—
<b>Microduct 20x7/3.5 + 2x14/10</b> 2/MPB30279/22	Red	20x7/3.5+2x14/10	700	7000	2500	15	44	—	813	1000

Article name	Color	Layout	Bend Radius [mm]		Tensile Force, Installation [N]	Crush [N/100 mm]	Impact [J]	Diameter Ø [mm]	Dimensions [mm]	Weight [kg/km]	Length [m]
Microduct 24x7/3.5+1x14/10, Red 2/MPB30287/25NZ	Red	24x7/ 3.5 + 1x14/ 10	440	7000	2500	15	–	44x33	0.881	1000	