



For micro-trenching with narrow width, **FLAT DUCT** is the most optimized item. The product itself can be placed vertically to fit on micro-trenching.

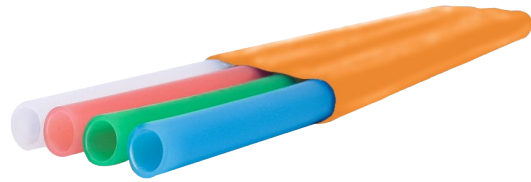
The size of the product is relatively small which allows better shipping and handling with the smaller reel size. Since Flat Duct has the same thickness of TWD (Thick- Walled Duct), customers can enjoy the same benefits of TWD.

- ❖ Installation: Open cut, Micro trenching, Mini trenching, Plow , HDD, Direct Installed



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Flat Duct



2Way



3way



4way



5way



6way



7way

Features

Various configurations with different size between 7/3.5mm and 20/16mm
Wide range of number of inner tube from 1 way to 7way

Optional Features

Ribbed & Smooth Type
Rip cords
Insulated Locatable copper wire



Material

- HDPE Inner tube and Outer sheath

Marking & Packing

- Meter or ft marking & Customized marking
- Various & customized put ups per reel

Color

- Outer sheath and inner tube colors are used according to industry standards, customer's colors, and stripes are optional.

Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Aqua	Black	Orange	Pink

Temperature Performance

Storage and Transportation	-40°C to +60°C
Installation	-20°C to +50°C
Operation	-40°C to +60°C

Maximum Air Pressure

- 15bar

Mechanical Performance Test compliance

Test	Standard
Tensile Performance	IEC 60794-1-21 Method E1
Bend	IEC 60794-1-21 Method E11
Kink	IEC 60794-1-21 Method E1
Impact	IEC 60794-1-21 Method E3
Crush	IEC 60794-1-21 Method E3
Inner Clearance:	IEC 60794-5-20 Ann.E

- Certified to Telcordia GR 3155-CORE

Microduct Configuration

7/3.5mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)
Single Tube	7.0	300	28	90	1,000
2way	16.0x9.0	1,100	93	110	2,000
3way	23.0x9.0	1,600	135	110	3,000
4way	29.6x8.6	1,900	162	110	3,000
5way	41.2x8.6	2,500	210	110	3,000
6way	48.2x8.6	2,900	248	110	3,000
7way	55.2x8.6	3,400	286	110	3,000

10/6mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)
Single Tube	10.0	500	48	120	1,000
2way	22.0x12.0	1,700	149	150	2,000
3way	32.0x12.0	2,500	216	150	3,000
4way	41.6x11.6	3,100	264	140	3,000
5way	56.2x11.6	4,000	340	140	3,000
6way	66.2x11.6	4,800	403	140	3,000
7way	76.2x11.6	5,500	466	140	3,000

12/8mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)
Single Tube	7.0	300	28	90	1,000
1way	9.0	600	52	110	2,000
2way	16.0x9.0	1,100	93	110	2,000
3way	16.0x15.1	1,500	128	190	3,000
4way	16.0x16.0	1,900	162	200	3,000
5way	23.0x15.1	2,300	195	190	3,000
6way	21.1x19.5	2,700	228	240	3,000
7way	23.0x21.1	3,000	258	260	3,000
12way	30.0x27.2	4,900	415	330	3,000
14way	37.0x21.1	5,800	485	260	3,000
19way	37.0x33.3	7,300	627	400	3,000
24way	44.0x33.3	9,000	777	400	3,000
24+1way	43.6x43.6	10,000	855	530	3,000

14/10mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)
Single Tube	14.0	800	72	170	1,000
2way	30.0x16.0	2,500	216	200	2,000
3way	44.0x16.0	3,700	315	200	3,000
4way	57.6x15.6	4,600	388	190	3,000
5way	76.2x15.6	5,900	499	190	3,000
6way	90.2x15.6	7,100	592	190	3,000
7way	104.2x15.6	8,200	685	190	3,000

16/12mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)
Single Tube	16.0	1,000	84	200	1,000
2way	34.0x18.0	3,000	250	220	2,000
3way	50.0x18.0	4,300	364	220	3,000
4way	65.6x17.6	5,300	449	220	3,000
5way	86.2x17.6	6,900	578	220	3,000
6way	102.2x17.6	8,200	686	220	3,000
7way	118.2x17.6	8,500	794	220	3,000

18/14mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)
Single Tube	18.0	1,100	96	220	1,000
2way	38.0x20.0	3,300	283	240	2,000
3way	56.0x20.0	4,900	414	240	3,000
4way	73.6x19.6	6,100	511	240	3,000
5way	96.2x19.6	7,800	657	240	3,000
6way	114.2x19.6	9,300	780	240	3,000
7way	132.2x19.6	10,000	903	240	3,000

20/16mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)
Single Tube	20.0	1,200	108	240	1,000
2way	42.0x22.0	3,700	316	270	2,000
3way	62.0x22.0	5,500	462	270	3,000
4way	81.6x21.6	6,800	571	270	3,000
5way	106.2x21.6	8,800	736	270	3,000
6way	126.2x21.6	10,000	873	270	3,000
7way	146.2x21.6	11,000	1,011	270	3,000

Internationally Certified

KNET has met and maintains the rigorous standards required to become a Certified ISO 9001, ISO 14001 and TL9000 manufacturer. KNET Microduct Assemblies has been rigorously tested by Telcordia Technologies and found to be compliant to Telcordia GR-3155-CORE.



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