



THICK-WALLED DUCT is designed for direct burial by having thicker inner tube. It has advantage for easy and fast termination with thin outer sheath.

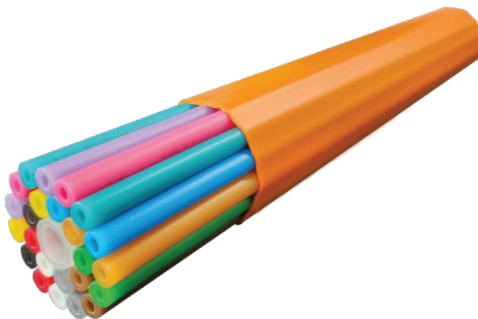
The thickness of each inner tube allows individual tubes to be used direct buried solution. This product is usually recommended to the site which requires fast and easy sheath cutting during fiber branch off from the FCP.

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



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Thick-Walled Duct



1way



2way



3way



4way



5way



6way



7way



12way



14way



19way



24way



24+1way

Features

Enhanced Silicone Liner for low friction

Various configurations with different size between 4/2.1mm and 20/16mm

Wide range of number of inner tube from 1 way to 24+1 way

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

4/2.1mm	Nom. OD (mm)	Weight (kg/km)	Max. Tensile (N)	Bend Radius (mm)	Crush (N)
Single Tube	4.0	9	100	50	1,000
1way	5.6	21	200	70	2,000
7way	13.6x12.5	92	1,100	150	2,000
12way	17.6x16.0	144	1,700	200	2,000
24way	25.6x19.5	263	3,100	240	2,000

7/3.5mm	Nom. OD (mm)	Weight (kg/km)	Max. Tensile (N)	Bend Radius (mm)	Crush (N)
Single Tube	7.0	28	300	90	1,000
1way	9.0	52	600	110	2,000
2way	16.0x9.0	93	1,100	110	2,000
3way	16.0x15.1	128	1,500	190	3,000
4way	16.0x16.0	162	1,900	200	3,000
5way	23.0x15.1	195	2,300	190	3,000
6way	21.1x19.5	228	2,700	240	3,000
7way	23.0x21.1	258	3,000	260	3,000
12way	30.0x27.2	415	4,900	330	3,000
14way	37.0x21.1	485	5,800	260	3,000
19way	37.0x33.3	627	7,300	400	3,000
24way	44.0x33.3	777	9,000	400	3,000
24+1way	43.6x43.6	855	10,000	530	3,000

10/6mm	Nom. OD (mm)	Weight (kg/km)	Max. Tensile (N)	Bend Radius (mm)	Crush (N)
Single Tube	10.0	48	500	120	1,000
1way	12.0	81	950	150	2,000
2way	22.0x12.0	149	1,700	150	2,000
3way	22.0x20.7	206	2,400	250	3,000
4way	22.0x22.0	264	3,100	270	3,000
5way	32.0x20.7	320	3,800	250	3,000
6way	29.4x27.0	374	4,400	330	3,000
7way	32.0x29.3	426	5,100	360	3,000

12/8mm	Nom. OD (mm)	Weight (kg/km)	Max. Tensile (N)	Bend Radius (mm)	Crush (N)
Single Tube	12.0	60	700	150	1,000
1way	14.0	99	1,100	170	2,000
2way	26.0x14.0	182	2,100	170	2,000
3way	26.0x24.4	254	3,000	300	3,000
4way	26.0x26.0	325	3,900	320	3,000
5way	38.0x24.4	395	4,700	300	3,000
6way	34.8x32.0	463	5,500	390	3,000
7way	38.0x34.8	527	6,300	420	3,000

14/10mm	Nom. OD (mm)	Weight (kg/km)	Max. Tensile (N)	Bend Radius (mm)	Crush (N)
Single Tube	14.0	72	800	170	1,000
1way	16.0	117	1,140	200	2,000
2way	30.0x16.0	216	2,500	200	2,000
3way	30.0x28.1	301	2,940	340	3,000
4way	30.0x30.0	386	3,780	360	3,000
5way	44.0x28.1	470	4,600	340	3,000
6way	40.2x37.0	551	5,390	450	3,000
7way	44.0x40.2	628	6,150	490	3,000

16/12mm	Nom. OD (mm)	Weight (kg/km)	Max. Tensile (N)	Bend Radius (mm)	Crush (N)
Single Tube	16.0	84	1,000	200	1,000
1way	18.0	135	1,600	220	2,000
2way	34.0x18.0	250	3,000	220	2,000
3way	34.0x31.9	349	4,100	390	3,000
4way	34.0x34.0	448	5,300	410	3,000
7way	50.0x45.7	729	8,700	550	3,000

18/14mm	Nom. OD (mm)	Weight (kg/km)	Max. Tensile (N)	Bend Radius (mm)	Crush (N)
Single Tube	18.0	96	1,100	220	1,000
1way	20.0	153	1,800	240	2,000
2way	38.0x20.0	283	3,300	240	2,000
3way	38.0x35.6	395	4,700	430	3,000
4way	38.0	508	6,000	460	3,000
6way	51.2x47.0	728	8,500	570	3,000
7way	56.0x51.2	828	9,500	620	3,000

20/16mm	Nom. OD (mm)	Weight (kg/km)	Max. Tensile (N)	Bend Radius (mm)	Crush (N)
Single Tube	20.0	108	1,200	240	1,000
1way	22.0	170	2,000	270	2,000
2way	42.0x22.0	316	3,700	270	2,000
3way	42.0x39.3	443	5,300	480	3,000
4way	42.0	569	6,800	510	3,000
7way	62.0x56.6	929	10,000	680	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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