

Thick Walled Duct Assemblies

For Micro Cables, Nano Cables and Air Blown Fibers

Features

- Easy to branch out and splice
- Heavy-duty design
- 1, 2, 4, 7, 12, 19 and 24 sub-duct options
- 7/3.5 mm and 14/10 mm microducts
- Low friction inner surface with anti static properties for maximum installation lengths
- Optional tracer wire for all versions

Application

The thick-walled microduct bundles consist of a number of micro ducts with an inner low friction surface that enables installation of air-blown fiber units, nano cables or fiber optic micro cables. The thick inner wall of the microducts allow for installation directly into the ground without the need for additional protection. The microducts are optimized for best performance in combination with the Hexatronic Ribbonet® and Micronet systems.

Design

The duct assemblies are available in several configurations from 1 to 24 microducts. Two types of microducts are used. The numbers refer to the outer/inner diameter:

- 7/3.5 mm ducts are optimized for installation of air-blown fibers and nano cables. The microducts have a solid low-friction inner surface and contains anti static materials for best performance.

- 14/10 mm ducts are intended for micro cables as well as nano cables. The microducts have a solid low-friction inner surface

The bundles have a thin outer sheath that is easily removed when branching off individual microducts

Marking and Sheath Color

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

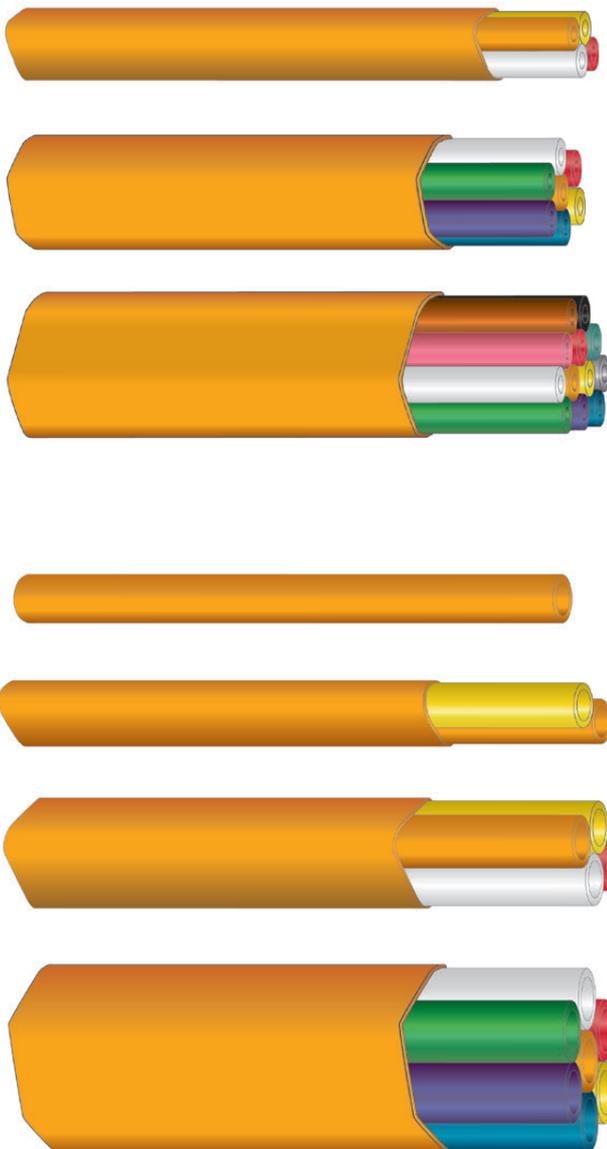
12 different colors are used: orange, yellow, red, white, green, violet, blue, grey, turquoise, black, brown, pink.

For duct assemblies with >12 ducts, the first 12 colored ducts are marked with "1" and the following ducts are marked with "2".

The ducts are available in various sheath colors for easy identification.

Tracer Wire

All duct assemblies and sheathed single ducts can be delivered with an optional tracer wire.





Thick Walled Duct Assemblies

Typical Data

Temperature range
 Operation-40 to +60°C
 Storage-40 to +60°C
 Installation-20 to +50°C

Material

Micro ducts and outer sheath: Polyethylene (HDPE)
 All materials are halogen free

Delivery Information

Supplied lengths500, 1000 m

Conformance

Abrasion..... IEC 60794-1-2-E2B(1)
 Kink..... IEC 60794-1-2-E10, 20 x outer diameter
 Impact IEC 60794-1-2-E4
 Crush IEC 60794-1-2-E3
 Tensile..... IEC 60794-1-2-E
 Bend IEC 60794-1-2-E11A
 Torsion..... IEC 60794-1-2-E
 Flexibility IEC 60794-1-2-E8
 Inner Clearance IEC 60794-5-20, IEC 60794-5-10, Ann. D

Duct Configurations with Tracer Wires (Optional)

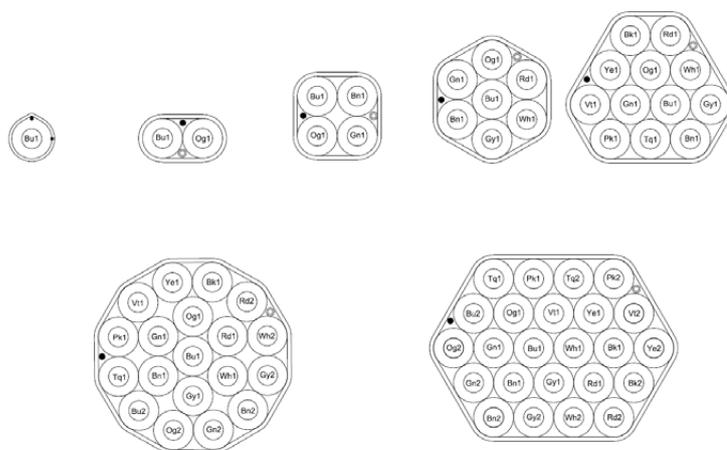
All sheathed single ducts and microduct assemblies are available with- or without tracer wires. The standard option is without wire. Contact Hexatronic for ordering information on ducts with tracer wires.

Tracer Wires (Optional and On Request)

Single sheathed ducts24 AWG (0.2 mm²)

Microduct assemblies 18 AWG (0.8 mm²)

MaterialIsolated, stranded copper





Thick Walled Duct Assemblies

Ordering Information

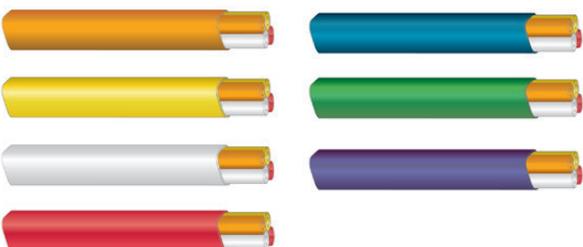
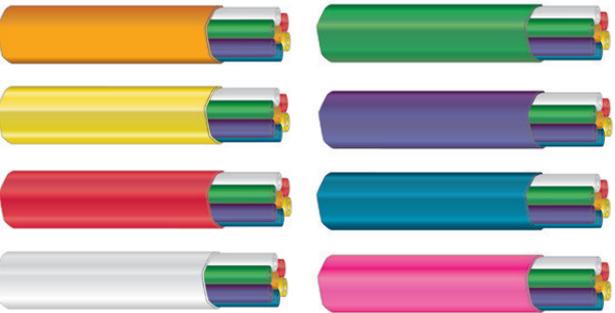
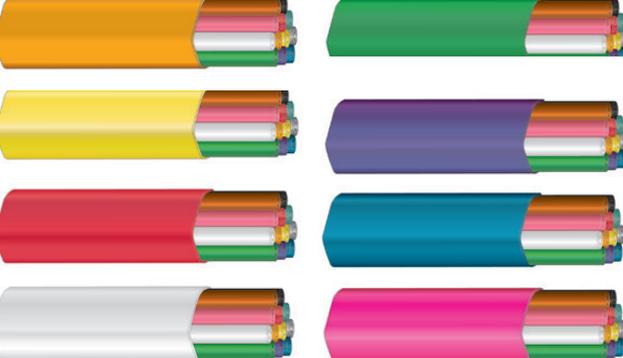
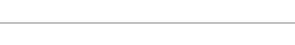
14/10 mm Assemblies for Micro Cables and Nano Cables (without tracer wire)

Type	Product Number	Outer Sheath Dimensions (mm)	Weight (g/m)
1-way Primary Tube 	MPB 302 85/OG1 (orange) MPB 302 85/YE1 (yellow) MPB 302 85/RD1 (red) MPB 302 85/WH1 (white) MPB 302 85/GN1 (green) MPB 302 85/VT1 (violet) MPB 302 85/BU1 (blue) MPB 302 85/GY1 (grey) MPB 302 85/TQ1 (turquoise) MPB 302 85/BK1 (black) MPB 302 85/BN1 (brown) MPB 302 85/PQ1 (pink)	Ø14	72
1-way Sheated 	MPB 302 77/1 (orange)	Ø16	118
2-way 	MPB 302 81/2M (orange) 4/MPB 302 81/2M (yellow) 2/MPB 302 81/2M (red) 5/MPB 302 81/2M (white) 1/MPB 302 81/2M (green) 3/MPB 302 81/2M (blue)	30x16	218
4-way 	MPB 302 77/4M (orange) 4/MPB 302 77/4M (yellow) 2/MPB 302 77/4M (red) 5/MPB 302 77/4M (white) 1/MPB 302 77/4M (green) 3/MPB 302 77/4M (blue)	30x30	360
7-way 	MPB 302 77/7M (orange) 4/MPB 302 77/7M (yellow) 2/MPB 302 77/7M (red) 5/MPB 302 77/7M (white) 1/MPB 302 77/7M (green) 3/MPB 302 77/7M (blue)	Ø44	648



Thick Walled Duct Assemblies

7/3.5 mm Assemblies for Air Blown Fiber or Nano Cables (without tracer wire)

Type	Product Number	Outer Sheath Dimensions (mm)	Weight (g/m)
1-way Primary Tube 	MPB 302 84/OG1 (orange) MPB 302 84/YE1 (yellow) MPB 302 84/RD1 (red) MPB 302 84/WH1 (white) MPB 302 84/GN1 (green) MPB 302 84/VT1 (violet) MPB 302 84/BU1 (blue) MPB 302 84/GY1 (grey) MPB 302 84/TQ1 (turquoise) MPB 302 84/BK1 (black) MPB 302 84/BN1 (brown) MPB 302 84/PK1 (pink)	Ø7	29
1-way Sheated 	MPB 302 78/1 (orange)	Ø9	53
2-way 	MPB 302 78/2 (orange)	16x9	105
4-way 	MPB 302 78/4M (orange) 4/MPB 302 78/4M (yellow) 2/MPB 302 78/4M (red) 5/MPB 302 78/4M (white) 1/MPB 302 78/4M (green) 6/MPB 302 78/4M (violet) 3/MPB 302 78/4M (blue) 7/MPB 302 78/4M (pink)	16x16	175
7-way 	MPB 302 78/7M (orange) 4/MPB 302 78/7M (yellow) 2/MPB 302 78/7M (red) 5/MPB 302 78/7M (white) 1/MPB 302 78/7M (green) 6/MPB 302 78/7M (violet) 3/MPB 302 78/7M (blue) 7/MPB 302 78/7M (pink)	Ø23	250
12-way 	MPB 302 78/12M (orange) 4/MPB 302 78/12M (yellow) 2/MPB 302 78/12M (red) 5/MPB 302 78/12M (white) 1/MPB 302 78/12M (green) 6/MPB 302 78/12M (violet) 3/MPB 302 78/12M (blue) 7/MPB 302 78/12M (pink)	30x27.3	455
19-way 	MPB 302 78/19M (orange)	Ø36	600
24-way 	MPB 302 78/24M (orange)	44x33.2	785