



Duct Systems OSP

EaseNet^{XS} microducts

Heavy duty, self-protected bundles of thick-walled microducts



Application

Draka's thick-walled microducts are designed in bundles for direct burying and have superior blowing characteristics to assure the very best blowing performance. Without the need for a protective duct, EaseNet^{XS} microducts can be branched off easily and direct-buried as a single microduct. A further benefit is that instead of complex tube management boxes, this solution uses simple connectors to branch off microducts into the distribution & drop part of the network. The thick-walled microducts are also available in other outer diameters and various ducting colors on request.

Microducts are a part of an optical fiber cable blowing system, which has been designed with expansion in mind and compatibility with existing technologies. The technique is based on laying the bundles of microducts first and afterwards blowing-in optical fiber cables. The system is flexibility - it allows customers to choose what they need, when they want it, and where they need it, ensuring the optimum in costs and fiber-infrastructure. Extra flexibility is added by applying "self-protecting" HDPE thick walled tubes; that can easily be extracted from the bundle to create a drop connection.

Features	Advantages
<ul style="list-style-type: none"> • Robust, having high crush resistance 	<ul style="list-style-type: none"> • No damage to the ducting system when laying it • Usable in every thinkable environment; for example rocky, wet or sandy soils.
<ul style="list-style-type: none"> • Superior characteristics for jetting microducts into duct while maintaining a high pressure resistance 	<ul style="list-style-type: none"> • Even under difficult circumstances acceptable blowing distances are achieved • When blowing, the ducts can withstand high pressure equipment.
<ul style="list-style-type: none"> • Jetting parameters stable over long period of time (> 15 years) 	<ul style="list-style-type: none"> • Even after a decade additional fiber cables can be installed. • This means the ducts are future proof
<ul style="list-style-type: none"> • Simple line of connectivity products 	<ul style="list-style-type: none"> • Uses less technical or skilled labor and requires less time in the field to make connections

CP053 / 1010

Product Range

Ordering code	Product name	Packaging
1016657	Direct Buried ducts 2 x 14 / 10 mm	per reel (1400 m)
1016658	Direct Buried ducts 4 x 14 / 10 mm	per reel (700 m)
1016659	Direct Buried ducts 6 x 14 / 10 mm	per reel (700 m)
1016660	Direct Buried ducts 7 x 14 / 10 mm	per reel (700 m)
1017229	Direct Buried ducts 3 x 12 / 8 mm	per reel (700 m)
1019012	Direct Buried ducts 4 x 12 / 8 mm	per reel (700 m)
1017230	Direct Buried ducts 5 x 12 / 8 mm	per reel (700 m)
1017231	Direct Buried ducts 7 x 12 / 8 mm	per reel (700 m)
1018408	Direct Buried ducts 2 x 7 / 4 mm	per reel (3000 m)
1016661	Direct Buried ducts 12 x 7 / 4 mm	per reel (1500 m)
1016662	Direct Buried ducts 24 x 7 / 4 mm	per reel (700 m)

Technical Specifications

Construction		
Wall thickness:	(nom.)	0.6 mm
Material:		Modified PP
Condition:		Inner surface: with axial ribs Outer surface: smooth
Ovality	(%)	< 3 %

Marking (is marked at intervals of 1 meter)	
Overall Sheath Marking:	Draka [no. of microducts]x[tube dimension mm]DB Draka ^{XS} Net [Batchcode number] [length marking]
Single Microduct Marking:	[Tube dimension mm] DB Draka ^{XS} Net [Batchcode number] [length marking]

Mechanical		
Bending radius	at installation	≥ 20x O.D.
	Installed	≥ 20x O.D.
Tensile strength:	Single microduct	≥ 500 N @ minimum 85% of I.D.
	2- fold microduct	≥ 1.000 N @ minimum 85% of I.D.
	4- fold microduct	≥ 1.500 N @ minimum 85% of I.D.
	6- fold microduct	≥ 2.000 N @ minimum 85% of I.D.
	7- fold microduct	≥ 2.000 N @ minimum 85% of I.D.
12- fold microduct	≥ 3.500 N @ minimum 85% of I.D.	
Crush resistance	All configurations	≥ 1.000 N / 10 cm @ min. 85% of I.D (60 sec.)
Hydrostatic test		2h / 20°C / 16 bar
Temperature rang	Transport and storage	-10°C - 50°C
	Installation	-10°C - 50°C
	Operation (blowing)	-5°C - 35°C

Microduct identification			
No of microduct	Duct color	No of microduct	Duct color
1 / 13	Red	7 / 19	Brown
2 / 14	White	8 / 20	Black
3 / 15	Yellow	9 / 21	Orange
4 / 16	Blue	10 / 22	Turquoise
5 / 17	Green	11 / 23	Pink
6 / 18	Violet	12 / 24	Grey

Microducts 13 – 24 are marked every 10 cm on two sides with the microduct number.



Value Innovation

Value Innovation is a way of looking at the world. How can we help our customers do more, save more, achieve more? Draka is a global leader in delivering advanced cable and network solutions. Focusing on the passive

elements of the network, our goal is to deliver superior network software, connectivity and cable solutions that meet your current and future network requirements, based on more bandwidth, longer life and absolute reliability.