

AirWave® Direct Install Metal Free Microduct Assemblies

Introduction

AirWave® DIMF (Direct Install Metal Free)

DIRECT INSTALL METAL FREE duct is designed for installation duct and sub duct. This product will install in the existed infrastructure with high crush resistance. The thin wall of inner tube can make it easy to bend or fix inside of cabinet or closure. Flexibility of tube is excellent for bending or fixing inside of cabinet or closure. It is strong against lightning, electrical surge.



1way



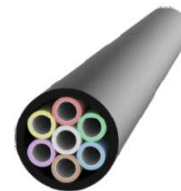
2way



4way



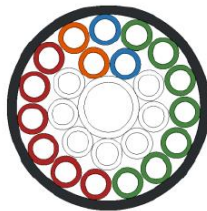
7way



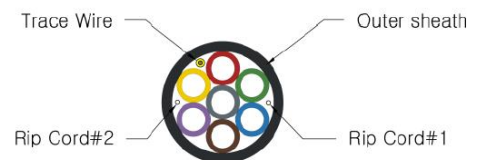
12way



19way



24+1way



All Lenora Microduct has the excellent blowing performance with a silicone coated inner tube.

Optional Features

- Various configurations with different size between 5/3.5mm and 12/10mm
- Wide range of number of inner tube from 1 way to 24+1 way
- Ribbed & Smooth Type
- Rip cords
- Insulated Locatable copper wire

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Primary Tubes Technical Details

Dimension

Item	Outer diameter(mm)		Inner diameter(mm)		Wall thickness(mm)		Pressure(bar)
	Min	Max	Min	Max	Min	silicon	
5/3.5	4.9	5.1	3.4	3.6	0.65	0.1	12/174
8/6	7.9	8.1	5.9	6.1	0.9	0.1	12/174
10/8	9.9	10.1	7.9	8.1	0.9	0.1	12/174
12/10	11.9	12.1	9.9	10.1	0.9	0.15	12/174

Microduct Assemblies Technical details

5/3.5mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)	Length/drum (m)	Number of drums in 40'
Single Tube	5.0	100	10	60	700	2,000	500
1way	8.0	450	38	100	2,000	2,000	104
2way	13.0x8.0	740	62	100	2,000	2,000	88
4way	15.1	1,170	98	190	3,000	2,000	36
7way	18.0	1,660	139	220	3,000	2,000	32
12way	23.3	2,500	209	280	3,000	2,000	21
19way	27.3	3,500	293	330	3,000	2,000	18
24+1way	32.9	4,700	398	400	3,000	2,000	12

8/6mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)	Length/drum (m)	Number of drums in 40'
Single Tube	8.0	200	21	60	700	2,000	104
1way	11.0	740	62	140	2,000	2,000	88
2way	19.0x11.0	1,200	106	140	2,000	2,000	33
4way	22.3	2,100	175	270	3,000	2,000	22
7way	27.0	3,000	257	330	3,000	2,000	18
12way	35.8	5,000	418	430	3,000	2,000	11

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10/8mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)	Length/drum (m)	Number of drums in 40'
Single Tube	10.0	300	27	120	700	1,000	130
1way	13.0	920	77	160	2,000	2,000	40
2way	23.0x13.0	1,500	132	160	2,000	2,000	30
4way	28.1	3,100	259	340	3,000	2,000	18
7way	34.2	4,500	383	420	3,000	2,000	12

12/10mm	Nom. OD (mm)	Max. Tensile (N)	Weight (kg/km)	Bend Radius (mm)	Crush (N)	Length/drum (m)	Number of drums in 40'
Single Tube	12.0	300	33	150	700	2,000	66
1way	15.0	1,090	91	180	2,000	2,000	36
2way	27.0x15.0	1,890	158	180	2,000	2,000	22
4way	33.0	3,700	310	400	3,000	2,000	12
7way	40.2	5,500	460	490	3,000	1,000	12

Mechanical Performance Test compliance

Tensile Strength: IEC 60794-1-2 Method E1

Bend: IEC 60794-1-2 Method E11

Kink: IEC 60794-1-2 Method E10

Impact: IEC 60794-1-2 Method E4

Crush: IEC 60794-1-2 Method E3

Material

HDPE Inner tube and Outer sheath

AirWave® Direct Install Metal Free Microduct Assemblies

Packaging

Microduct assemblies are delivered on wooden drum. The drums protected with plastic foil and both ends of the microduct assembly are sealed with glued shrinkage tube to ensure that the product will not be affected by moisture or dust.

Marking

Product code

Product specification

Manufactured code (Lot No. and etc.)

Length marking

Other markings are available upon customer requests.

Ordering Information

Product Code	Microduct Description
LN-AW-DIMF-5/3.5-1	Direct Install Metal Free micro duct ,1 way ,5/3.5mm
LN-AW-DIMF-5/3.5-2	Direct Install Metal Free micro duct ,2 way ,5/3.5mm
LN-AW-DIMF-5/3.5-4	Direct Install Metal Free micro duct ,4 way ,5/3.5mm
LN-AW-DIMF-5/3.5-7	Direct Install Metal Free micro duct ,7 way ,5/3.5mm
LN-AW-DIMF-5/3.5-12	Direct Install Metal Free micro duct ,12 way ,5/3.5mm
LN-AW-DIMF-5/3.5-19	Direct Install Metal Free micro duct ,19 way ,5/3.5mm
LN-AW-DIMF-5/3.5-24	Direct Install Metal Free micro duct,24 way ,5/3.5mm
LN-AW-DIMF-5/3.5-24+1/10	Direct Install Metal Free micro duct ,24 way 5/3.5mm+1 way 10/8
LN-AW-DIMF-5/3.5-24+1/12	Direct Install Metal Free micro duct ,24 way 5/3.5mm+1 way 12/10
LN-AW-DIMF-8/6-1	Direct Install Metal Free micro duct ,1 way ,8/6mm
LN-AW-DIMF-8/6-2	Direct Install Metal Free micro duct ,2 way ,8/6mm
LN-AW-DIMF-8/6-4	Direct Install Metal Free micro duct ,4 way ,8/6mm
LN-AW-DIMF-8/6-7	Direct Install Metal Free micro duct ,7 way ,8/6mm
LN-AW-DIMF-8/6-12	Direct Install Metal Free micro duct ,12 way ,8/6mm
LN-AW-DIMF-10/8-1	Direct Install Metal Free micro duct ,1 way ,10/8mm
LN-AW-DIMF-10/8-2	Direct Install Metal Free micro duct ,2 way ,10/8mm
LN-AW-DIMF-10/8-4	Direct Install Metal Free micro duct ,4 way ,10/8mm
LN-AW-DIMF-10/8-7	Direct Install Metal Free micro duct ,7 way ,10/8mm
LN-AW-DIMF-12/10-1	Direct Install Metal Free micro duct ,1 way ,12/10mm
LN-AW-DIMF-12/10-2	Direct Install Metal Free micro duct ,2 way ,12/10mm
LN-AW-DIMF-12/10-4	Direct Install Metal Free micro duct ,4 way ,12/10mm
LN-AW-DIMF-12/10-7	Direct Install Metal Free micro duct ,7 way ,12/10mm

Notice: The data in this document are only reference and will be changed without any notice.
This specification is intended as a guide only.