

AirWave® Direct Install Aluminum Microduct Assemblies

Introduction

AirWave® DIAL (Direct Install Aluminum)

DIRECT INSTALL ALUMINUM duct is for installation duct and sub duct. This product will install in the existed infrastructure to maximize DI-AL advantage with the Aluminum tape which helps to block the water from the extreme wet soil condition.

It is recommended to earth regular interval with aluminum or use metal free products.



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 tubes 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	8.4	600	50	110	1,500	2,000	104
2way	13.4x8.4	930	78	110	1,500	2,000	44
4way	15.5	1,400	123	190	1,500	2,000	36
7way	18.4	2,000	168	230	1,500	2,000	32
12way	23.7	2,900	246	290	1,500	2,000	21
19way	27.7	4,000	337	340	1,500	2,000	18
24+1way	33.3	5,300	447	400	1,500	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	11.4	940	79	140	1,500	2,000	44
2way	19.4x11.4	1,500	130	140	1,500	2,000	33
4way	22.7	2,500	210	280	1,500	2,000	22
7way	27.4	3,600	301	330	1,500	2,000	18
12way	36.2	5,700	477	440	1,500	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	13.4	1,100	97	170	1,500	2,000	40
2way	23.4x13.4	1,900	161	170	1,500	2,000	29
4way	27.9	3,300	279	340	1,500	2,000	18
7way	33.8	4,700	398	410	1,500	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	15.4	1,300	115	190	1,500	2,000	36
2way	27.4x15.4	2,300	192	190	1,500	2,000	22
4way	32.8	4,000	335	400	1,500	2,000	12
7way	39.8	5,700	479	480	1,500	1,000	12

Mechanical Performance Test compliance

Tensile Strength: IEC 60794-1-21 Method E1
 Bend: IEC 60794-1-21 Method E11
 Kink: IEC 60794-1-21 Method E10
 Impact: IEC 60794-1-21 Method E4
 Crush: IEC 60794-1-21 Method E3
 Inner Clearance: IEC 60794-5-20 Ann. E

Material

HDPE Inner tube and Outer sheath

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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-DIAL-5/3.5-1	Direct Install Aluminum micro duct ,1 way ,5/3.5mm
LN-AW-DIAL-5/3.5-2	Direct Install Aluminum micro duct ,2 way ,5/3.5mm
LN-AW-DIAL-5/3.5-4	Direct Install Aluminum micro duct ,4 way ,5/3.5mm
LN-AW-DIAL-5/3.5-7	Direct Install Aluminum micro duct ,7 way ,5/3.5mm
LN-AW-DIAL-5/3.5-12	Direct Install Aluminum micro duct ,12 way ,5/3.5mm
LN-AW-DIAL-5/3.5-19	Direct Install Aluminum micro duct ,19 way ,5/3.5mm
LN-AW-DIAL-5/3.5-24	Direct Install Aluminum micro duct ,24 way ,5/3.5mm
LN-AW-DIAL-5/3.5-24+1/10	Direct Install Aluminum micro duct , 24 way 5/3.5mm+1 way 10/8
LN-AW-DIAL-5/3.5-24+1/12	Direct Install Aluminum micro duct , 24 way 5/3.5mm+1 way 12/10
LN-AW-DIAL-8/6-1	Direct Install Aluminum micro duct ,1 way ,8/6mm
LN-AW-DIAL-8/6-2	Direct Install Aluminum micro duct ,2 way ,8/6mm
LN-AW-DIAL-8/6-4	Direct Install Aluminum micro duct ,4 way ,8/6mm
LN-AW-DIAL-8/6-7	Direct Install Aluminum micro duct ,7 way ,8/6mm
LN-AW-DIAL-8/6-12	Direct Install Aluminum micro duct ,12 way ,8/6mm
LN-AW-DIAL-10/8-1	Direct Install Aluminum micro duct ,1 way ,10/8mm
LN-AW-DIAL-10/8-2	Direct Install Aluminum micro duct ,2 way ,10/8mm
LN-AW-DIAL-10/8-4	Direct Install Aluminum micro duct ,4 way ,10/8mm
LN-AW-DIAL-10/8-7	Direct Install Aluminum micro duct ,7 way ,10/8mm
LN-AW-DIAL-12/10-1	Direct Install Aluminum micro duct ,1 way ,12/10mm
LN-AW-DIAL-12/10-2	Direct Install Aluminum micro duct ,2 way ,12/10mm
LN-AW-DIAL-12/10-4	Direct Install Aluminum micro duct ,4 way ,12/10mm
LN-AW-DIAL-12/10-7	Direct Install Aluminum 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.