



LadonX Multipair Telephone Outdoor Cable 5/10/20/50 Pair 0.5mm twist conductor

Flame Resistant

IEC 60332-1

Design Reference

CW1179

CW205

M142

TI A2 M2001

M132

BS6360

BS5099

SS80: 1972

Application

Underground Telecom Network

Working Conditions

Storage Temperature

-20°C ~ +70°C

Installation Temperature:

-20°C ~ +50°C

Operation Temperature

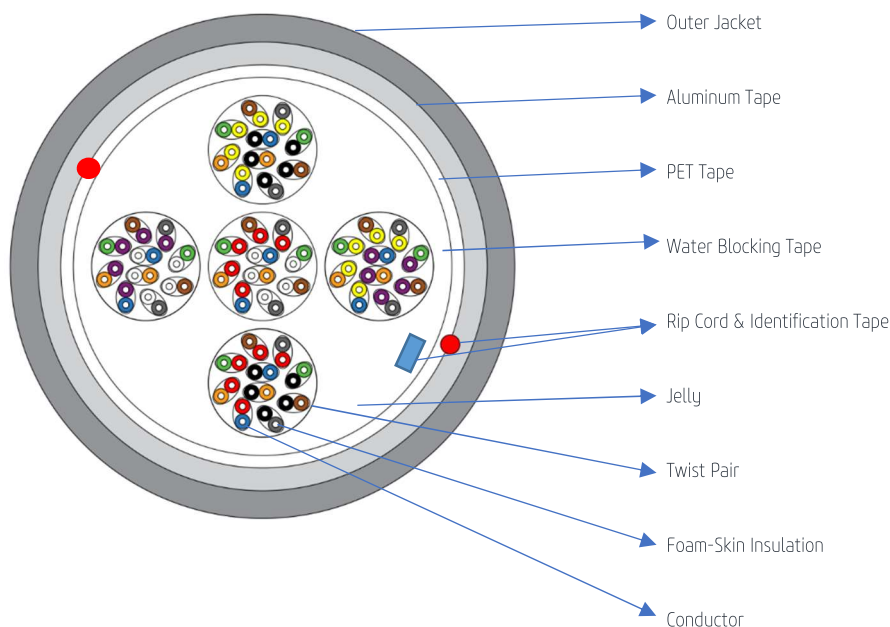
-20°C ~ +70°C

Min. Allowable Bending Radius

Static: > 15 D

Dynamic: > 25 D

D is the out diameter of the cable



Technical data

Number of Pairs	5/10/20/50	
Conductor	99.9% pure annealed copper	
Conductor OD	mm	0.5 ± 0.01
Insulation	Foam skin polyethylene	
After Insulation OD (Nom.)	mm	0.9
Core Wrapping	A continuously protective layer of tape is lapped helically	
Identification Tape	Transparent polyester tape with black words	
Rip Cord	Two nylon yarn are placed horizontally	
Water Resistant Compound	Synthetic jelly filling compound	
Moisture Barrier	Single layer longitudinally overlapped APL tape	
Thickness of Aluminum Tape(Nom.)	mm	0.2
Thickness of Plastic Layer(Nom.)	mm	0.05
Outer Jacket	FRPE	
Color of Jacket	Black	
Overall Cable Diameter(Nom.)	mm	8.1/10.1/12.8/17.4



Electrical Characteristics

Max. Conductor Resistance at 20°C	95Ω/km		
Intrinsic attenuation at 20°C	Average value		
	150KHZ	1024KHZ	
	≤0.9dB/KM	≤21.8dB/KM	
Elongation	≥ 15%		
Resistance Unbalance	Max.	5%	
	Average	1.5%	
Dielectric Strength	Core to core	1.0kV DC/1min.	
	Core to screen	3.0 kV DC/1min.	
Capacitance unbalance at 0.8 kHz or 1 kHz (nF/KM)	Core to core	≤ 200	
	Core to screen		
	pairs	Max.	Average
	≤ 10	2630	---
	> 10	2630	≤ 570
Working capacitance at 0.8 kHz or 1 kHz (pF/KM)	pairs	Max.	Average
	≤ 10	58.0	52±4
	> 10	57.0	52±2
Min. Insulation Resistance at 20 °C	3000 MΩ·km		

Sheath Mechanical and Physical Characteristics

Item	Specification
Density	1.3 – 1.5 g/cm3
Oxygen Index	≥ 30
Elongation	≥ 300%
Tensile Strength	≥ 0.8 kgf/mm2
Stress Cracking	≤ 2/10 failure
Shrinkage	< 5%
Smoke Emission	> 60%
PH-Value	> 4.3
Vertical flame spread	50 < L ≤ 540 mm
Halogen acid gas	≤ 0.5%



Cable Make-up

25 pairs shall be form an unit

NO.of Pairs in cable	Make-up
5 x 2 x 0.5mm	1 x 5
10 x 2 x 0.5mm	1 x 10
20 x 2 x 0.5mm	2 x 10
50 x 2 x 0.5mm	1 x10+4 x10

Colour of tape lappings

within unit or a double or quadruple unit for cables

NO.of unit	Colour of tape lappings	Colour of tape lappings for Unit
1	Blue	1-25
2	Orange	26-50

Insulation Colour Coding

Number of pairs		1	2	3	4	5	6	7	8	9	10
Insulation color coding	a	white	white	white	white	white	red	red	red	red	red
	b	blue	orange	green	brown	gray	blue	orange	green	brown	gray

Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS LADONX SINGTEL FIRE RETARDANT OUTDOOR MULTIPAIR TELEPHONE CABLE FULLY-FILLED UNIT TWIN WITH MB POLYETHYLENE SHEATH XX PAIR 0.5MM WWYYYY XXXXM

Shipping Information

Packing Method

Wooden Drum with Protection

Delivery Length

Standard Delivery Length is 2km with a tolerance of $\pm 3\%$



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