



LadonX Multipair Telephone Outdoor Cable 20/50/100 Pair PE 0.90mm PE Outer Sheath

Flame Resistant

N/A

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

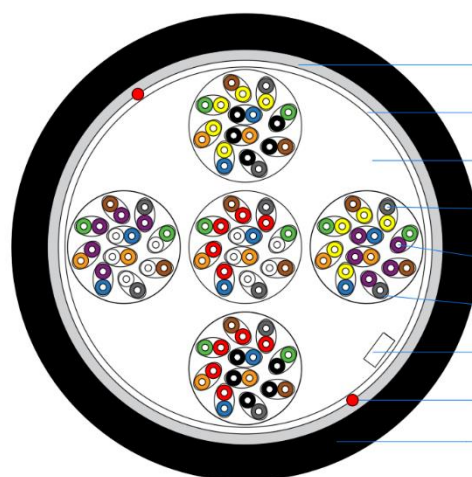
-20°C ~ +70°C

Min. Allowable Bending Radius

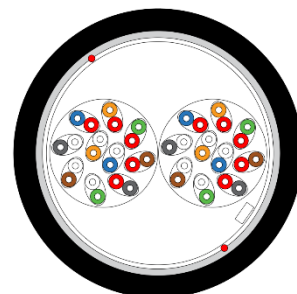
Static: > 15 D

Dynamic: > 25 D

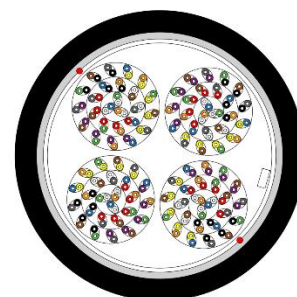
D is the out diameter of the cable



50P



20P



100P

Technical data

Number of Pairs	20/50/100	
Conductor	99.9% pure annealed copper	
Conductor OD	mm	0.90± 0.01
Insulation	Solid PE	
After Insulation OD (Nom.)	mm	1.92
Core Wrapping	A continously 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 Alunimum Tape(Nom.)	mm	0.2
Thickness of Plastic Layer(Nom.)	mm	0.05
Outer Jacket	LDPE	
Color of Jacket	Black	
Overall Cable Diameter(Nom.)	mm	22.0/30.5/39.5



Electrical Characteristics

Max. Conductor Resistance at 20°C	30Ω/km		
Intrinsic attenuation at 20°C	Average value		
	150KHZ	1024KHZ	
	≤4.1dB/KM	≤11.1dB/KM	
Elongation	≥18%		
Resistance Unbalance	Max.	4%	
	Average	1.5%	
Dielectric Strength	Core to core	1.0 kV 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)	Max.		Average
	≤65		≤59
Min. Insulation Resistance at 20 °C	3000 MΩ·km		

Sheath Mechanical and Physical Characteristics

Item	Specification
Density	0.93 – 0.95 g/cm ³
Elongation	≥350%
Tensile Strength	≥1.0 kgf/mm ²
Stress Cracking	≤0/10 failure
Shrinkage	<5%

Cable Make-up

25 pairs shall be form an unit for 100P, 10 Pairs shall be form an unit for 50P and below
(Selected from the 1st~25th colour for 100P , 1st ~10th colour for 50P)

NO.of Pairs in cable	Make-up
20 x 2 x 0.90mm	2 x 10
50 x 2 x 0.90mm	5 x 10
100 x 2 x 0.90mm	4 x 10



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
		50 Pairs and below
1	Blue	1-10
2	Orange	11-20
3	Green	21-30
4	Brown	31-40
5	Grey	41-50

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
Number of pairs		11	12	13	14	15	16	17	18	19	20
Insulation color coding	a	Black	Black	Black	Black	Black	Yellow	Yellow	Yellow	Yellow	Yellow
	b	blue	orange	green	brown	gray	blue	orange	green	brown	gray
Number of pairs		21	22	23	24	25					
Insulation color coding	a	Violet	Violet	Violet	Violet	Violet					
	b	blue	orange	green	brown	gray					

Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS LADONX SINGTEL POL FF XXX/0.90 OUTDOOR TELEPHONE CABLE JELLY FILLED LDPE SHEATH XXX PAIR 0.90MM WWYYYY XXXXXM

Shipping Information

Packing Method

Wooden Drum with Protection

Delivery Length

Standard Delivery Length is 0.5km for 100P and 1km for 20P and 50P



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