

## CATEGORY 5e U/UTP OUTDOOR PE CABLE JACKET

LAN Cable			
MultiLan			
RoHS Compliant Category 5e			
U/UTP (Unshielded) Polyethylene Jacket			

General Characteristics			
	Canara		atariatiaa

Features	4 twisted-c	pair cable, using solid bare coppe	er conductor 24 AWG, insulated with			
i edities		=	cket using black LLDPE-linear low densit			
	polyethyle	polyethylene UV resistant suitable for outdoor application.				
Compatibility	FCS products					
Applications	<ol> <li>Cable comply with electrical requirements of ANSI/TIA-568-C.2 and ISO/IEC 1180<sup>-2</sup></li> <li>Cable comply with RoHS (Restriction of Hazardous Substances) directive</li> <li>Cable is compatible with RJ-45 Cat 5e female</li> </ol>					
Standards Compliance	ANSI/TIA-568-C.2, ISO/IEC 11801					
Constructive characteristi	С					
Conductor	Solid bare copper with nominal diameter 24AWG.					
Insulation	High density Polyethylene nominal diameter 0.94mm					
Insulation Resistance	10000 MΩ/km					
Number of Pairs	4 pairs 24 AWG					
Pair	All pairs are twisted in such way to reduce Crosstalk effects. Each conductor is identified according with the following color sequence.					
Color Codes	Pair	Insulation Color "A"	Insulation Color "B"			
	1	Blue	White / Blue Stripe			
	2	Orange	White / Orange Stripe			
	3	Green	White / Green Stripe			
	4	Brown	White / Brown Stripe			
Cabling	All four pairs are cabled together in such way to reduce electromagnetic inteferences making the cable lay-up.					
Shield	Unshielded (U/UTP).					



Sheath

Black polyethylene (LLDPE) jacket, UV stabilized, suitable for outdoor application

Nominal Diameter	5.0mm
Color	Black polyethylene jacket
Cable Weight	26 kg/km
Physical Characteristics	
Installation Temperature	0°C up to 50°C
StorageTemperature	-20 °C up to 70 °C
Operation Temperature	-20°C up to 60°C
Eletrical Characteristics	
Maximum Unbalance Resistance	5%
Conductor Max. DC Resistance at 20°C	93.8 Ω/km
Maximum Mutual Capacitance 1kHz	56 pF/m
Max. Unbalance Capacitance Pair x Ground	3,3 pF/m
Characteristic Impedance	100±15% Ω
Maximum Propagation Delay	545ns/100m @ 10MHz
Maximum Delay Skew	45ns/100m
Dieletric strength	2500 VDC/3s
NVP	68%



## **Transmission Performance**

Frequency(MHZ)	Atenuation @ 20°C (dB/100m) Max	NEXT (dB) Min.	PS NEXT (dB) Min.	ACRF (dB) Min	PS ACRF (dB) Min	Return Loss (dB) Min
0.772	1.8	67.0	64.0			
1	2.0	65.3	62.3	63.8	60.8	20.0
4	4.1	56.3	53.3	51.8	48.8	23.0
8	5.8	51.8	48.8	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	25.0
20	9.3	45.8	42.8	37.8	34.8	25.0
25	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.5
100	22.0	35.3	32.3	23.8	20.8	20.1

The transmission characteristics are based on measurements made cable samples taken from reels and placed over a flat non-conductive surface.

Marking

FURUKAWA MULTILAN U/UTP 24AWGX4P OUTDOOR JACKET VERIFIED TO TIA-568-C.2

CATEGORY 5E YAAMMDDHHmm (\*\*) m "

Traceability:

Y- Manufacturing Process

AAMMDDHHmm: AA-Year, MM-Month, DD - Day, HH - Hour, mm - minute

**Package** 

Plastic spool

Standard Lengh

305 meters

