

# Category 5e (350 MHz) w/Power Wire Cables



## STANDARD

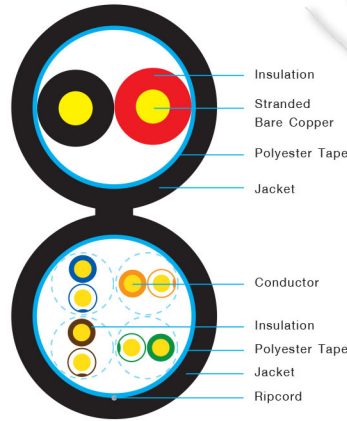
- ANSI/TIA-568.2-D Category 5E
- ISO/IEC 11801:2017 Class D
- EN 50173-1 Category 5E
- ICEA 5-90-661 Category 5E
- EN 50288-3-1, NEMA WC 63.1
- IEC 61156-5
- UL444
- RoHS Compliant

## APPLICATION

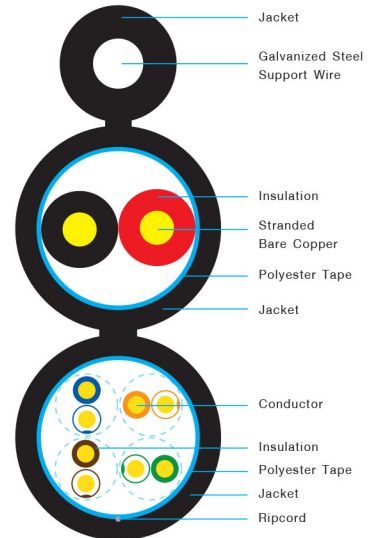
- 2.5G BASE-T (IEEE 802.3bz)
- 10/100/1000 BASE-T (IEEE 802.3i/u/ab)
- IEEE 802.3af/at (PoE/PoE+)
- 52/155/622 Mbps and 1.2 Gbps ATM
- 4/16 Mbps Token Ring
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- HD BaseT 2.0 standard, Baseband, Broadband
- Digital & Analog for data, video and audio application



US-9015PW



US-9015MW



## ELECTRICAL CHARACTERS

<b>Impedance</b>	: 100±15Ω, 1 MHz to 350 MHz
<b>Mutual Capacitance</b>	: 5.6 nFMax / 100m
<b>Capacitance, Unbalance</b>	: 160 pF Max / 100m
<b>DC Resistance</b>	: 9.38 ohm Max/100m
<b>DC Resistance, Unbalance</b>	: 2.5% Max.
<b>Insulated Resistance</b>	: 5000 MΩ/Km
<b>Dielectric Strength</b>	: 1kV/min
<b>Propagation Delay</b>	: 536 ns/100m Max @350MHz
<b>Delay Skew</b>	: 25 ns Max

## CONSTRUCTION / MATERIAL

<b>Conductor</b>	: 24AWG Solid Bare Copper
<b>Insulation</b>	: HDPE
<b>Mylar Type</b>	: Polyester Tape
<b>Ripcord</b>	: Under Jacket
<b>Jacket</b>	: UV-Proof, PE
<b>Power Wire</b>	: 24 x 0.2 mm Stranded Bare Copper (18 AWG)
<b>Messenger Wire</b>	: Galvanize Steel Wire, 1.3mm for US-9015MW

FREQUENCY (MHZ)	INSERTION LOSS (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	77	75	75	73	68	65	20.0
25	9.5	56	46.5	54	44.5	40	37	24.3
31.25	10.7	55	44.3	53	42.3	38	35	23.6
62.5	15.4	50	34.6	48	32.6	32	29	21.5
100	19.8	47	27.2	45	25.2	28	25	20.1
155	25.3	44	18.7	42	16.7	24	21	18.8
200	29	43	14	41	12	22	19	18.0
250	32.8	41	8.2	39	6.2	20	17	17.3
300	36.6	40	3.4	38	1.4	18	15	16.8
350	40	39	-	37	-	17	14	16.3

## MECHANICAL PROPERTIES

### Minimum Bending Radius

Installation 8 X Cable Diameter

Operation 4 X Cable Diameter

### Tensile Strength

9.7 MPa (1400 PSI) for US-9015PW

16.5 MPa (2400 PSI) for US-9015MW

### Installation / Operating temperature

-40°C to 75°C

### Storage Temperature

-40°C to 80°C

Part No.	Cable Type	Conductor	Jacket	Diameter (mm.)	Color	Packaging
US-9015PW	Outdoor	24AWG Solid Bare Copper	PE	5.4 (12.3)	Black	305m/Reel in Box
US-9015MW	Outdoor	24AWG Solid Bare Copper	PE	5.4 (18.0)	Black	305m/Reel in Box
US-9015PW-1	Outdoor	24AWG Solid Bare Copper	PE	5.4 (12.3)	Black	100m/Reel in Box
US-9015MW-1	Outdoor	24AWG Solid Bare Copper	PE	5.4 (18.0)	Black	100m/Reel in Box