IMRDWS

PRODUCT DESCRIPTION

IMRDWS is an aerial wire designed for use in extending communications service (voice, data, and/or video) to a subscriber premises from the distribution point. This product has additional capabilities over the standard IMRDW product because it contains a shielding screen. The conductors are wrapped within a metallic aluminum shield to insulate them from interference and thus provide high quality digital transmission. In addition, a drain wire runs longitudinally the length of the wire to drain off Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI). Without shielding and a drain wire, noise can be introduced into circuits from high voltage AC power lines, machinery with motors, x-ray systems, TV sets and AM radio stations. Shielding also lessens the chance that DSL or other high frequency transmission protocols will interfere with other signals on adjacent cables.

SPECIFICATIONS

Conductor	Solid bare copper
Insulation	Polyolefin
Core Assembly	Individual conductors carefully twisted into pairs to minimize resistance unbalance and cross-talk
Shield	3 mil foil shield with drain wire
Jacket	Black polyethylene
Rip cord	Placed parallel to the core
Support Wire	"Figure 8" configuration utilizing a 0.109 inch, solid, extra high strength, steel support wire
Standards Compliance	ICEA S-89-648 as applicable RoHS-compliant

FEATURES	BENEFITS
• 3 mil foil shield with drain wire	• Provides high quality digital transmission medium for xDSL technologies and, when properly grounded, removes spectrum interferences
• Black, polyethylene jacket	• Provides tough, flexible protective covering that withstands exposure to sunlight, atmospheric temperatures and stresses encountered in standard installations
• Rip cord	• Facilitates jacket removal

ELECTRICAL SPECIFICATIONS

All Pairs	Average Mutual Capacitance @ 1000 Hz nF/mile (nF/km)
Maximum Individual	94 (58)
Wire Average	83 ± 7 (52 ± 4)

Conductor Size AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) megohm-mile (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance @ 68°F (20°C) Ohms/mile (Ohms/km)	DC Resistance Unbalance Maximum % Individual Pair	Dielectric Strength Minimum Volts DC	
					Conductor to Conductor	Conductor to Shield
22 (0.64)	1,000 (1,600)	5.1 (16.7)	91 (56.4)	5.0	7,200	3,600

Crosstalk Loss	dB/kft (dB/km)
Minimum FEXT @ 150 kHz	63 (207)
Minimum NEXT @ 722 kHz	44 (144)

Capacitance Unbalance @ 1000 Hz	pF @ 1 kft (pF @ 1 km)
Maximum Individual Pair to Pair	80 (145)
Maximum Individual Pair to Ground	800 (2,625)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Dimensions		Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
			Minor in (mm)	Major in (mm)			
10-061-29	6	22 (0.64)	0.32 (8.1)	0.60 (15.3)	95 (142)	2,133 (650)	Reel
10-040-29	6	22 (0.64)	0.32 (8.1)	0.60 (15.3)	95 (142)	5,000 (1,524)	Reel

TECHNICAL GUIDELINE

Sag and Tension Guides for these products are available online:
SuperiorEssex.com/TechTip.aspx

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