

## PRODUCT DESCRIPTION

Multi-pair, self-supporting IMRDW Wire is used for subscriber lines in exchange plant; single-pair is often used for lateral runs from aerial plant. In both single and multi-pair types, the wire core is laid parallel to a solid steel support wire and jacketed in an integral extrusion to form a “figure-8” configuration utilizing a 0.109 inch solid, extra-high strength steel support member. The IM construction permits fast, economical installation and facilitates removal and re-use of wire.



## SPECIFICATIONS

Conductor	Solid bare copper
Insulation	Polyolefin
Core Assembly	Twisted into pairs to minimize resistance unbalance; in multi-pair constructions, pair twist lays vary to minimize crosstalk and meet capacitance unbalance requirements; twisted pairs are formed into firm, round core
Core Wrap	Non-hygroscopic, dielectric wrap
Jacket	Black polyethylene
Support Wire	Single 0.109 inch solid, extra-high strength steel, jacketed in an integral extrusion with the core
Standards Compliance	RDUP PE-27 and PE-28 deactivated by RDUP ICEA S-89-648 as applicable RoHS-compliant

## ELECTRICAL SPECIFICATIONS

Number of Pairs	Average Mutual Capacitance @ 1000 Hz nF/mile (nF/km)
Maximum Individual	94 (58)
12 or less	83 ± 7 (52 ± 4)
Over 12	83 ± 4 (52 ± 2)

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
19 (0.90)	1,000 (1,600)	3.6 (11.8)	45 (28.0)	5.0	7,200
22 (0.64)	1,000 (1,600)	5.1 (16.7)	91 (56.4)	5.0	7,200
24 (0.51)	1,000 (1,600)	6.5 (21.3)	144 (89.5)	5.0	7,200

Capacitance Unbalance @ 1000 Hz	pF @ 1 kft (pF @ 1 km)
Maximum Pair to Pair	80 (145)

## 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)			
10-001-15	1	19 (0.90)	0.20 (5.1)	0.48 (12.2)	60 (90)	5,000 (1,524)	Reel
10-002-15	2	19 (0.90)	0.25 (6.4)	0.53 (13.5)	70 (105)	5,000 (1,524)	Reel
10-003-15	3	19 (0.90)	0.30 (7.6)	0.59 (15.0)	85 (125)	5,000 (1,524)	Reel
10-006-15	6	19 (0.90)	0.39 (9.9)	0.68 (17.2)	120 (180)	5,000 (1,524)	Reel
10-012-15	12	19 (0.90)	0.48 (12.2)	0.77 (19.5)	180 (270)	5,000 (1,524)	Reel
10-002-17	2	22 (0.64)	0.20 (5.1)	0.48 (12.2)	60 (90)	5,000 (1,524)	Reel
10-003-17	3	22 (0.64)	0.23 (5.8)	0.51 (12.9)	65 (95)	5,000 (1,524)	Reel
10-004-17	4	22 (0.64)	0.24 (6.0)	0.52 (13.2)	70 (104)	5,000 (1,524)	Reel
10-006-17	6	22 (0.64)	0.29 (7.5)	0.58 (14.8)	85 (125)	5,000 (1,524)	Reel
10-012-17	12	22 (0.64)	0.36 (9.2)	0.65 (16.5)	115 (170)	5,000 (1,524)	Reel
10-018-17	18	22 (0.64)	0.43 (11.0)	0.72 (18.3)	150 (225)	5,000 (1,524)	Reel
10-006-19	6	24 (0.51)	0.25 (6.4)	0.54 (13.7)	70 (105)	5,000 (1,524)	Reel
10-012-19	12	24 (0.51)	0.32 (8.2)	0.61 (15.4)	95 (140)	5,000 (1,524)	Reel



### TECHNICAL GUIDELINE

Sag and Tension Guides for these products are available online:  
[SuperiorEssex.com/TechTip.aspx](http://SuperiorEssex.com/TechTip.aspx)