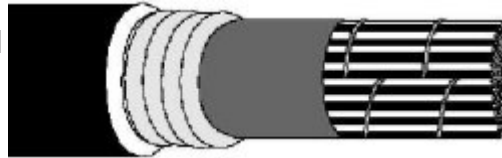


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AERIAL OR DIRECT BURIAL CABLE
INSULATION: FOAM/SKIN POLYOLEFIN
OUTER JACKET: POLYETHYLENE
SIZES: 19, 22, 24, 26 AWG
REA PE-89



1.0 APPLICATION:

1.1 P7073 is designed for use as a duct, aerial or direct burial cable in either exchange area service or trunk service. The core is filled with an 80°C filling compound and the sheath interfaces are flooded with a flooding compound. The polymer coating provides additional corrosion protection for the aluminum shield.

2.0 CONSTRUCTION:

2.1 Conductor:

Solid annealed bare copper, sizes 19 AWG (.9mm), 22 AWG (.64mm), 24 AWG (.5mm) and 26 AWG (.4mm)

2.2 Insulation:

Inner layer of foamed natural polyolefin covered by outer layer of solid colored polyolefin, color coded in accordance with standard telephone industry code.

2.3 Twisted Pairs:

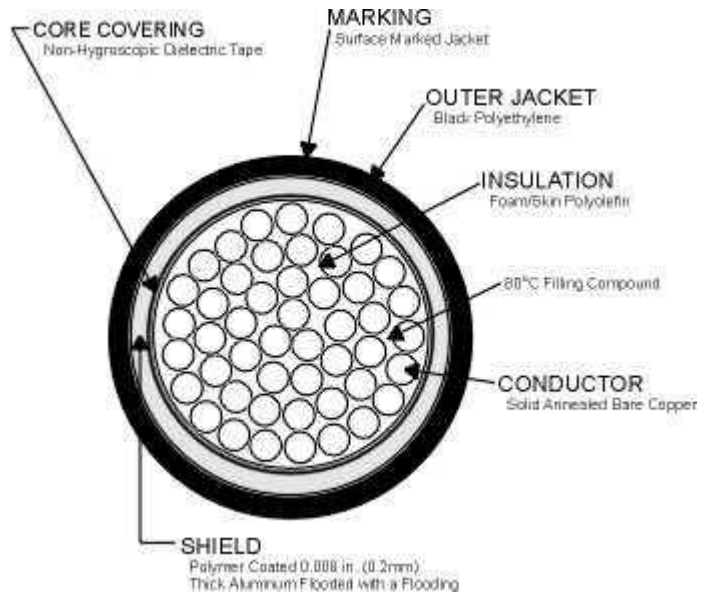
Individual conductors twisted into pairs with varying lays to minimize crosstalk and with specified color combinations to provide pair identification.

2.4 Cable Assembly:

Cables having 25 pairs and less are assembled in a single group. Cables having more than 25 pairs are assembled in units, each individually identified by color coded unit binders. The interstices between the pairs are filled with an 80°C filling compound.

2.5 Core Covering:

Non-hygroscopic dielectric tape.



2.6 Shield:

Electrically continuous 0.008 in. (0.2mm) thick polymer coated, corrugated aluminum tape applied longitudinally with overlapped edges and flooded with a flooding compound.

2.7 Jacket :

Black polyethylene.

2.8 Identification /Length Marking:

Manufacturer's identification, pair count, conductor size, and year of manufacture and surface marked on the jacket at 2 ft. (610mm intervals. Sequentially numbered length markings are located at alternate 2 ft. (610mm) intervals.

3.0

MEETS REA SPECIFICATION PE-89, LATEST ISSUE

PHYSICAL DATA				STANDARD PACKAGING LENGTHS ± 10%
0.008 in.	(0.2mm)	Polymer	Coated Aluminum	

WIRE SIZE	No. Of Pairs	Nominal Cable Dia.		Approx. Cable Wt.		Reel Size	Reel Length		Approx. Shipping Wt.	
		in	mm	lb/kft	kg/km		ft	m	lb	kg
19 AWG (0.9MM)	6	0.51	13	130	194	2	6000	1829	953	432
	12	0.63	16	215	320	12	6000	1829	1550	703
	18	0.72	18	298	444	18	6000	1829	2103	954
	25	0.81	21	389	580	25	6000	1829	2789	1265
	50	1.09	28	729	1086	50	6000	1829	5108	2317
	75	1.28	32	1046	1559	75	6000	1829	7255	3291
	100	1.44	37	13458	2023	100	6000	1829	9217	4181
	150	1.75	45	2002	2983	150	6000	914	6740	3057
	200	1.98	50	2618	3901	200	6000	914	8923	4047
	300	2.37	60	3843	5726	300	6000	457	6499	2498
	400	2.71	69	5091	7586	400	6000	457	8706	3949
600	3.24	82	7474	11136	600	6000	305	8708	3950	

4.0

Electrical Characteristics All values at or corrected to 20°C	Conductor Size							
	AWG				MM			
	19	22	24	26	0.9	0.64	0.5	0.4
Average Mutual Capacitance nF/mile (nF/km) £ 12 pair > 12 pair	83±7 83±4				(52±4) (52±2)			
Mutual Capacitance Deviation Maximum RMS %	3.0				3.0			
Mutual Conductance Microcomhos/mile (Microcomhos/km)	3.3				(2)			
Capacitance Unbalance pF/kft (pf/km) Pair to Pair Maximum Individual (< 12 pair) Maximum RMS (° 12 pair) Pair to Ground Maximum Individual Maximum Average (° 12 pair)	100 25 - 800 175				(180) (45) - (2625) (574)			
Far End Crosstalk Loss @ 150 KHZ dB/kft (dB/km) Minimum RMS Minimum Individual	73 63				(68) (58)			
Near End Crosstalk Loss @ 772 KHZ for lengths >1000ft. (305m) Min. M-S (Mean-one Standard Deviation), dB Within 12 & 13 pair units Within 18 & 25 pair units Between adjacent units £ 13 pair Between adjacent 25 pair units Between non-adjacent units (all)	56 60 65 66 81				56 60 65 66 81			
Attenuation dB/mile (dB/km) 150 kHz Nominal Average 772 kHz Nominal Average Tolerance £ 12 pair: +15%, -10% Tolerance > 12 pair: +5%, -10%	7.1 16.8	10.0 23.6	13.4 29.8	18.3 36.3	(4.4) (10.4)	(6.2) (14.6)	(8.3) (18.5)	(11.4) (22.5)
Insulation Resistance megohm - mile (megohm-km)	1000				(1600)			
High Voltage Test dc Voltage for 3 seconds Conductor to Conductor Conductor to Shield	4500 10000	3600 10000	3000 10000	2400 10000	4500 10000	3600 10000	3000 10000	2400 10000
Conductor Resistance W /kft (W/km) Maximum Individual	8.7	17.4	27.5	44.0	28.5	57.1	90.2	144.4
Resistance Unbalance Percent Maximum Average Maximum Individual	1.5 4.0	1.5 4.0	1.5 5.0	2.0 5.0	1.5 4.0	1.5 4.0	1.5 5.0	2.0 5.0

INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE