

STEAMPETH

DKMN and DKTN



Specifications

Conductor	Solid annealed copper
Insulation	Solid polypropylene insulation; standard color codes are used for pair identification
Core Assembly	Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, color coding is Mirror Image
Core Wrap	Non-hygroscopic dielectric material
Shield	Corrugated bare 8 mil aluminum tape applied longitudinally over the core wrap
Armor	Corrugated, copolymer coated, 6 mil steel tape applied over the aluminum shield and bonded to the outer jacket
Jacket	Black, medium density polyethylene
Jacket Marking	Manufacturer's identification, pair count, AWG, product identification, a telephone handset and sequential footage markings are printed at 2 foot intervals.
Standards Compliance	Telcordia GR-110-CORE

Product Description

STEAMPETH Cable is a solid insulated, single jacket, armored air core design intended for use in underground systems where a high incidence of damage could occur if steam enters the duct. The cable is designed for application in high temperature environments up to 230°F (110°C).

Applications

- Steam tunnels

Features

- Solid polypropylene insulation
- Tightly controlled individual conductor dimensions
- Specially designed pair twist lays
- Core wrap
- Aluminum tape shield
- Steel armor bonded to the outer jacket
- Polyethylene jacket

Benefits

- Provides higher temperature rating
- Limits resistance unbalance of paired conductors
- Minimizes crosstalk and meets the capacitance unbalance requirements
- Protects core and helps provide core-to-shield dielectric strength
- Assures good electrical contact with non-piercing bonding clamps
- Protects the core from mechanical damage and reduces possibility of tape buckling during installation, ingress of water to the shield and seepage of water along the cable between the armor and outer jacket
- Provides a tough, flexible, protective covering that withstands exposure to sunlight, above-normal temperatures, ground chemicals and stresses expected during installation

Electrical Specifications

Number of Pairs	Average Mutual Capacitance @ 1000 Hz nF/mile (nF/km)	Capacitance Unbalance Pair to Pair @ 1 kHz		Capacitance Unbalance Pair to Ground @ 1 kHz	
		Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)
All pairs	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)

Conductor Sizes AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	Maximum Average Attenuation @ 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance @ 68°F (20°C) Ohms/sheath mile (km)	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential – Volts	
				Average	Individual Pair	Conductor to Conductor	Conductor to Shield
24 (0.51)	1.0 (1.6)	5.9 (16.4)	144 (89.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.4 (24.3)	232 (144.2)	1.5	5.0	2,400	10,000

	Minimum Near End Crosstalk (NEXT)	
	@ 150 kHz	@ 772 kHz
PSWUNEXT Mean (dB)	58	47
PSWUNEXT Worst Pair (dB)	53	42

	Minimum Far End Crosstalk			
	@ 150 kHz	@ 772 kHz	@ 150 kHz	@ 772 kHz
Conductor Size (AWG)	24	26	24	26
PSELFEXT Mean (dB/kft)	63	61	49	47
PSELFEXT Worst Pair (dB/kft)	57	57	43	43

Part Numbers and Physical Characteristics

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight lbs (kg)	Steel Reel Size F x T x D in
127-118-19	DKMN	900	24 (0.51)	2.23 (57)	3,110 (4,630)	2,100 (640)	7,325 (3,325)	83 x 40 x 42
127-145-19	DKTN	300	26 (0.40)	1.11 (28)	750 (1,115)	8,600 (2,621)	7,245 (3,285)	83 x 40 x 42
127-151-19	DKTN	600	26 (0.40)	1.51 (38)	1,395 (2,075)	4,800 (1,463)	7,490 (3,400)	83 x 40 x 42
127-153-19	DKTN	900	26 (0.40)	1.79 (46)	2,015 (3,000)	3,300 (1,006)	7,445 (3,375)	83 x 40 x 42
127-155-19	DKTN	1,200	26 (0.40)	2.04 (52)	2,635 (3,920)	2,120 (646)	6,380 (2,895)	83 x 40 x 42
127-157-19	DKTN	1,800	26 (0.40)	2.50 (64)	3,885 (5,780)	1,650 (503)	7,205 (3,270)	83 x 40 x 42
127-159-19	DKTN	2,400	26 (0.40)	2.87 (73)	5,110 (7,605)	1,250 (381)	7,185 (3,260)	83 x 40 x 42
127-162-19	DKTN	3,000	26 (0.40)	3.18 (81)	6,325 (9,415)	1,150 (351)	8,070 (3,660)	83 x 40 x 42
127-164-19	DKTN	3,600	26 (0.40)	3.36 (85)	7,495 (11,155)	850 (259)	7,165 (3,250)	83 x 40 x 42