

Spectra-Zip® TPE .025" center 193-3X0X series



characteristics

physical

Conductors: copper, see chart below
 Insulation: .0075" (0.19mm) wall TPE
 Pitch: 0.025"±0.002" (0.64±0.05mm)
 centers
 Color: gray (one edge red)
 Temperature rating: -20°C to +105°C
 (-4°F to +221°F)

electrical

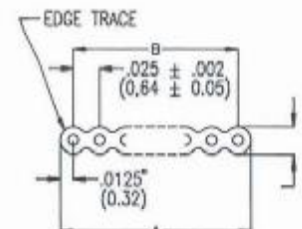
Voltage: 150 V
 Current rating: 0.8 amps nominal @ 10°C
 rise above ambient
 Propagation delay: 1.45 ns/ft
 (4.76 ns/m) nominal
 Insulation resistance: 10¹⁰ ohms · 10"
 (3 m) min.
 Crosstalk: 10" (3 m) sample,
 5 ns rise time with 2 lines driven,
 unbalanced mode (see chart below)
 UL style: #20647, rated 105°C
 (+221°F)

description

Spectra-Strip® TPE .025" center zip cable accommodates interconnected miniaturization, with the added benefit of improved electrical performance characteristics. Applications include any system requiring higher and faster signal density. Standard put-up is 100' coils. Longer lengths are available upon request.

benefits

- TPE insulation - lower dielectric constant, higher impedance, and faster signal speeds than PVC cable
- High density center-to-center spacing allows increased miniaturization
- Precise spacing for controlled electrical characteristics
- Easy, fast mass-termination
- Easy identification of # 1 conductor with edge mark
- Double contour allows termination from either side of cable
- UL recognized



Part Number	193-3003	193-3005	193-3203	193-3205
Conductors	30-1 solid bare	30-7/38 tinned	32-1 solid bare	32-7/40 tinned
Thickness	.025"±.002"	.027"±.002"	.023"±.002"	.024"±.002"
Impedance	88 ohms	80 ohms	105 ohms	95 ohms
Capacitance (nominal)	18.5 pF/ft (54.1 pF/m) @ 1 MHz	19.0 pF/ft (62.3 pF/m) @ 1 MHz	14.0 pF/ft (45.9 pF/m) @ 1 MHz	17.0 pF/ft (55.8 pF/m) @ 1 MHz
Inductance (nominal)	.15 µH/ft (.49 µH/m) @ 1.0 MHz	.14 µH/ft (.46 µH/m) @ 1.0 MHz	.17 µH/ft (.56 µH/m) @ 1.0 MHz	.15 µH/ft (.49 µH/m) @ 1.0 MHz
Crosstalk	near end: * 2.7% far end: * 3.3% near end: ** 1.0% far end: ** 1.6%	near end: * 3.1% far end: * 3.6% near end: ** 1.0% far end: ** 1.9%	near end: * 3.0% far end: * 3.6% near end: ** 1.2% far end: ** 2.2%	near end: * 3.1% far end: * 3.4% near end: ** 1.0% far end: ** 2.0%

order information

30-1 BARE SOLID	30-7/38 TINNED	32-1 BARE SOLID	32-7/40 TINNED	# COND	WIDTH A		SPAN B	
PART #	PART #	PART #	PART #		INCHES	(mm)	INCHES	(mm)
193-3003-010	193-3005-010	193-3203-010	193-3205-010	10	.250	(6.35)	.225±.005	(5.72±0.13)
193-3003-016	193-3005-016	193-3203-016	193-3205-016	16	.400	(10.16)	.375±.005	(9.53±0.13)
193-3003-020	193-3005-020	193-3203-020	193-3205-020	20	.500	(12.70)	.475±.005	(12.07±0.13)
193-3003-026	193-3005-026	193-3203-026	193-3205-026	26	.650	(16.51)	.625±.005	(15.88±0.13)
193-3003-034	193-3005-034	193-3203-034	193-3205-034	34	.850	(21.59)	.825±.006	(20.96±0.15)
193-3003-040	193-3005-040	193-3203-040	193-3205-040	40	1.000	(25.40)	.975±.006	(24.77±0.15)
193-3003-050	193-3005-050	193-3203-050	193-3205-050	50	1.250	(31.75)	1.225±.006	(31.12±0.15)
193-3003-060	193-3005-060	193-3203-060	193-3205-060	60	1.500	(38.10)	1.475±.006	(37.47±0.15)
193-3003-064	193-3005-064	193-3203-064	193-3205-064	64	1.600	(40.64)	1.575±.006	(40.01±0.15)
193-3003-068	193-3005-068	193-3203-068	193-3205-068	68	1.700	(43.18)	1.675±.007	(42.55±0.18)
193-3003-080	193-3005-080	193-3203-080	193-3205-080	80	2.000	(50.80)	1.975±.007	(50.17±0.18)
193-3003-100	193-3005-100	193-3203-100	193-3205-100	100	2.500	(63.50)	2.475±.007	(62.87±0.18)

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