TYPE VNTC TC-ER INSTRUMENTATION CABLE

PVC/Nylon 600 Volts 90°C PVC Jacket

Unshielded Triads with an **Overall Shield**

PART NUMBER	NO. OF TRIADS	NOMINAL JACKET THICK. (INCHES)	NOMINAL OUTSIDE DIAMETER (INCHES)	NOMINAL WEIGHT 1000 FT. (POUNDS)	PULLING TENSION (POUNDS)
18 AWG					
02-0253	1	.047	.283	51	51
02-0254	2	.047	.442	90	90
02-0255	4	.047	.513	153	168
02-0256	8	.062	.700	282	323
02-0257	10	.062	.820	345	401
02-0258	12	.082	.886	427	478
02-0259	16	.082	.982	538	633
02-0260	20	.082	1.088	651	789
02-0261	24	.082	1.208	765	944
02-0262	36	.082	1.382	1080	1410
02-0263	50	.082	1.628	1451	1953
16 AWG					
02-0264	1	.047	.309	68	82
02-0265	2	.047	.490	120	144
02-0266	4	.062	.601	222	268
02-0267	8	.062	.779	383	516
02-0268	10	.082	.955	503	639
02-0269	12	.082	.985	578	763
02-0270	16	.082	1.094	735	1011
02-0271	20	.082	1.214	893	1259
02-0272	24	.082	1.351	1055	1509
02-0273	36	.082	1.549	1505	2250
02-0274	50	.112	1.887	2142	3117

SIZE (AWG)	CONDUCTOR - CONDUCTOR PF / FT (NOMINAL)	CONDUCTOR - SHIELD PF / FT (NOMINAL)
18	16	32
16	20	40

SCOPE:
These 600 volt Instrumentation Cables are UL listed under Article 340 of the NEC and are suitable for cable tray use in Class 1, Division 2 hazardous locations. The cable can be used in wet or dry locations and up to conductor temperatures of 90°C. The addition of nylon over the conductors provides excellent oil and gasoline protection.

The flame properties meet or exceed the requirements of both the UL 70,000 BTU vertical tray flame test and the comparable IEEE-383 flame test. A 210,000 BTU rating is also available upon request.

APPLICATIONS:
The cables can be used in trays, conduit, and wireways. They are sunlight resistant and suitable for direct burial. They are available with a PVC or CPE jacket.

CONSTRUCTION:
Class B, stranded per ASTM B-3 and ASTM B-8.
Conductors are type FN listed under UL 62.
Triads are twisted with staggered lays to reduce crosstalk.
Available in tinned copper upon request.

PRIMARY INSULATION:
105°C rated PVC and nylon jacket.

SHIELDING:
Overall shield is helically applied with 100% coverage with a tinned copper drain wire.

OVERALL JACKET:
PVC or CPE (90°C rated)
Ripcord is applied under the jacket to facilitate stripping.

COLOR CODING:
Triads are color coded black, white, and red.
One conductor in each pair or triad is number coded for ease of identification.

DATA:

Maximum DC Resistance @ 20°C	#18 AWG	#16 AWG
Ohms/1000 feet	6.64	4.18

Minimum Bend Radius (inches) = Nominal Cable Diameter x 8

Capacitance - Pairs (Triads will be 1 to 3 pf/ft higher than pairs)

NOTE: Specifications and weights are nominal and subject to standard industry tolerances.

»Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.