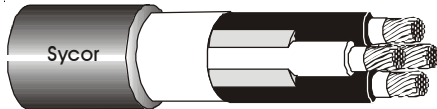




**SYCOR**  
TECHNOLOGY INC.

## Tray Cable

**Type TC - Control or Instrumentation-Shielded**  
**90°C Dry/75°C Wet, 600 Volts**  
**PVC/Nylon Insulation, PVC Jacket**



### CONSTRUCTION:

Specification covers multiconductor shielded cables have TFFN or VW-1 THHN/THWN(PVC/Nylon) conductors, an aluminum polyester tape shield with drain wire and an overall gas/vapor tight polyvinyl chloride jacket.

### TEMPERATURE RATING:

75°C - Wet, 90°C - Dry

### VOLTAGE RATING:

600 Volts

### INSULATION:

High dielectric Polyvinyl chloride with nylon sheath

### SHIELD:

.00035" aluminum foil/.001" polyester tape shield is applied helically with a minimum 15% overlap.

### JACKET:

Gas/vapor tight Polyvinyl Chloride  
Black

### APPLICATION:

UL listed and OSHA acceptable. Recognized for use in Class 1 or 2, Division 2 hazardous locations and for installation in trays, wireways, troughs, channels, ducts and conduit. Specifically approved for direct burial, wet or dry locations and outdoors in cable trays where a sunlight resistant rating is required. Designed for control, power, lighting, telemetering, signals and relay or traffic control where shielding against external interference is required.

### APPROVALS:

UL listed  
OSHA acceptable

Sycor Part Number	# of Cond. Power	# of Cond. Contro	Nom. Jack. Thick.	Nom. O.D.	Approx Weight Lbs./Mf
TC12031 404	3/12AWG	4/14AWG	.045"	.475"	192
TC10031 404	3/10AWG	4/14AWG	.060"	.545"	265
TC08031 404	3/8AWG	4/14AWG	.060"	.675"	356
TC06031 404	3/6AWG	4/14AWG	.060"	.725"	458
TC04031 404	3/4AWG	4/14AWG	.080"	.935"	702
TC02031 404	3/2AWG	4/14AWG	.080"	1.02"	982
TC12031 406	3/12AWG	6/14AWG	.045"	.505"	252
TC10031 406	3/10AWG	6/14AWG	.060"	.615"	307
TC08031 406	3/8AWG	6/14AWG	.060"	.695"	416
TC06031 406	3/6AWG	6/14AWG	.060"	.785"	475
TC04031 406	3/4AWG	6/14AWG	.080"	.905"	711
TC02031 406	3/2AWG	6/14AWG	.080"	1.00"	1000
TC10031 204	3/10AWG	4/12AWG	.060"	.585"	281
TC08031 204	3/8AWG	4/12AWG	.060"	.715"	392
TC06031 204	3/6AWG	4/12AWG	.060"	.750"	507
TC04031 204	3/4AWG	4/12AWG	.080"	.935"	735
TC02031 204	3/2AWG	4/12AWG	.080"	1.02"	1030
TC10031 206	3/10AWG	6/12AWG	.060"	.625"	348
TC08031 206	3/8AWG	6/12AWG	.060"	.695"	446
TC06031 206	3/6AWG	6/12AWG	.060"	.775"	572
TC04031 206	3/4AWG	6/12AWG	.080"	.885"	776
TC02031 206	3/2AWG	6/12AWG	.080"	1.01"	1052

### SCOPE:

This specification covers multiconductr composite cables having THHN/THWN(PVC/Nylon) conductors with an overall gas/vapor tight Polyvinyl chloride(PVC) jacket; conforming to Article 318 "Cable Trays" and Article 340 "Power and Control Cable Type TC" of the 1990 National Electrical Code and standard 1277 of Underwriter's Laboratories Inc. Meets the requirements of the 70,000 BTU "Cable Tray Propagation Test" per IEEE-383 and shows reserve capabilities by also passing the 210,000 BTU flame test.

**Sycor Technology Inc.** Advance Wire and Cable Division

2455 Milltower Court, Mississauga, Ontario L5N 5Z6 Phone: (905) 821-3591, Fax: (905) 821-7260

Sycor Advance