



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SPECIFICATION CONTROL DRAWING

TU \* 050 28B

TITLE

CABLE, ELECTRIC, RADIATION-CROSSLINKED, MODIFIED  
ETFE-INSULATED, AWG 28-EQUIVALENT, BARE COPPER

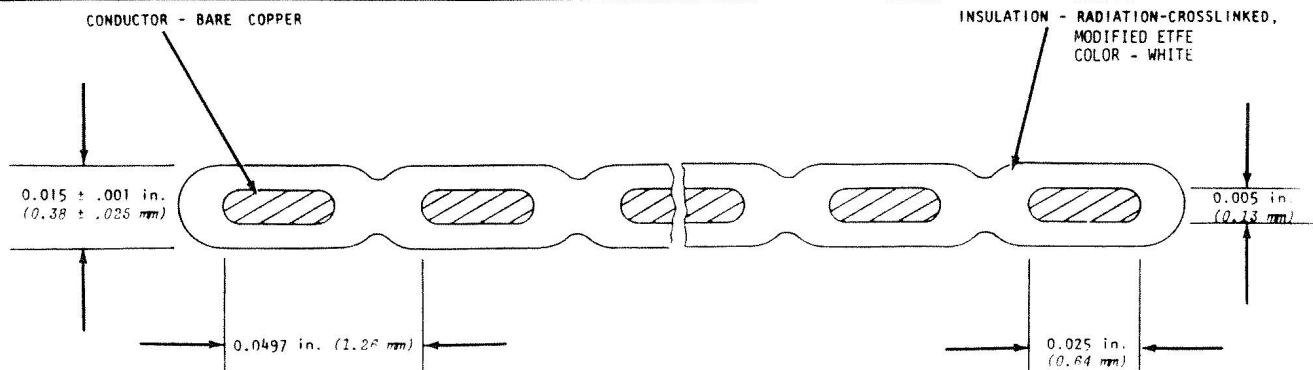
DATE:

9-11-89

REVISION:

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This specification sheet forms a part of the latest issue of Raychem Specification 50.



## CABLE CONSTRUCTION DETAILS

PART NUMBER	NUMBER OF CONDUCTORS	CABLE WIDTH		MAXIMUM CABLE WEIGHT	
		±.016 in.	(±.41 mm)	lb/1000 ft.	(kg/km)
TU 40 050 28B	40	1.988	(50.5)	41.0	(61.0)
TU 31 050 28B	31	1.541	(39.1)	31.9	(47.5)
TU 21 050 28B	21	1.044	(26.5)	21.8	(32.4)
TU 20 050 28B	20	.994	(25.2)	20.5	(30.5)
TU 16 050 28B	16	.795	(20.2)	16.6	(24.7)
TU 10 050 28B	10	.497	(12.6)	10.3	(15.3)
TU 8 050 28B	8	.398	(10.1)	8.4	(12.5)
TU 4 050 28B	4	.199	(5.1)	5.3	(7.9)

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: -55 to 150°C  
 VOLTAGE RATING: 450 volts (rms)  
 ACCELERATED AGING: 300 ± 3°C for 7 hours,  
 .25 in. (6.4 mm) mandrel, 2.0 lb (including  
 weight of clamp)  
 BLOCKING: 200°C  
 CONDUCTOR RESISTANCE (at 20°C):  
 77.0 Ω /1000 ft. (253 Ω /km) (maximum)  
 FLAMMABILITY: 3 seconds (maximum), 3 in.  
 (76.2 mm) (maximum)  
 FLEXING ENDURANCE:

TEMPERATURE (°C)	MINIMUM NUMBER OF CYCLES
150 ± 5	400
-55 ± 5	400

IDENTIFICATION DURABILITY: 125 cycles, weight 150 gm  
 IDENTIFICATION OF PRODUCT: The cable shall be marked  
 with "RAYCHEM-(part number from table above) 06090"  
 in green ink along the left edge of one side of the  
 cable.

INSULATION FLAWS: 3500 volts (rms)  
 INSULATION RESISTANCE: 500 MΩ for  
 1000 ft. (152 MΩ for 1 km) (minimum)  
 LIFE CYCLE: 200 ± 3°C for 168 hours  
 MOISTURE RESISTANCE: 500 MΩ for 1000 ft.  
 (152 MΩ for 1 km) (minimum)  
 SHRINKAGE: 200 ± 3°C for 6 hours, .062 in.  
 (1.57 mm) (maximum) in 12 in. (305 mm)  
 VACUUM STABILITY:  
 Total Mass Loss (TML), 1.0% (maximum)  
 Volatile Condensable Material (VCM), 0.1% (maximum)  
 VOLTAGE WITHSTAND: 1500 volts, 60 Hz

## PART NUMBER:

The "28" in the part numbers above shall  
 indicate the equivalent round wire size  
 (AWG), which is based on conductor cross  
 section.

The "B" in the part numbers above shall  
 indicate the bare copper conductor  
 material.

The "\*" in the part numbers above shall  
 indicate the number of conductors.

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COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.