

SPECIFICATION CONTROL DRAWING

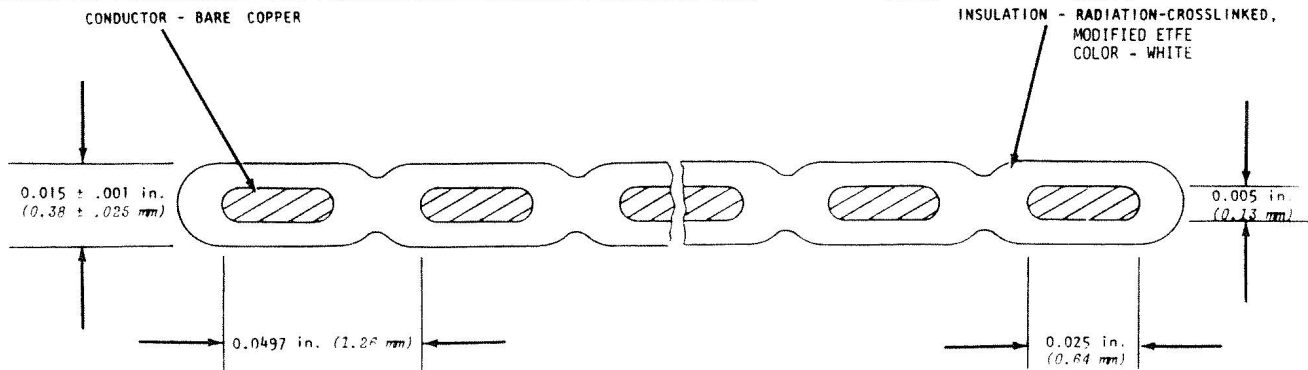
TU * 050 28B

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

DATE: 9-11-89

REVISION: F

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	
		$\pm .016$ in.	$(\pm .41)$ 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.

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