

SPECIFICATION CONTROL DRAWING

SCD

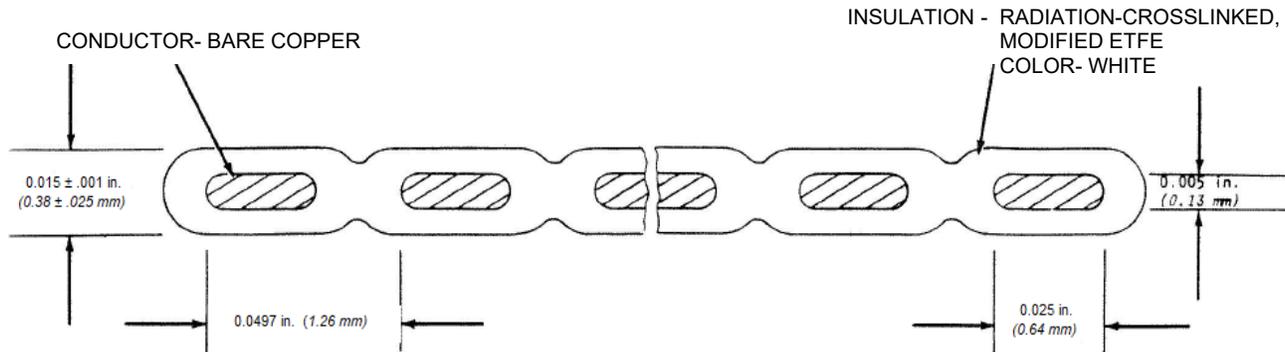
TU * 050 28B

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

Date 4-15-21

Revision H

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



CABLE CONSTRUCTION DETAILS			
PART NUMBER	NUMBER OF CONDUCTORS	CABLE WIDTH ± .016 in. (± 0.41 mm)	MAXIMUM CABLE WEIGHT 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	0.994 (25.2)	20.5 (30.5)
TU 16 050 28B	16	0.795 (20.2)	16.6 (24.7)
TU 10 050 28B	10	0.497 (12.6)	10.3 (15.3)
TU 8 050 28B	8	0.398 (10.1)	8.4 (12.5)
TU 4 050 28B	4	0.199 (5.1)	5.3 (7.9)

ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: -55° to 150°C
 VOLTAGE RATING: 450 volts (rms)
 ACCELERATED AGING: 300 ± 3°C for 7 hours
 0.25 in. (6.4 mm) mandrel, 2.0 lb (including weight of clamp)
 BLOCKING: 200°C
 CONDUCTOR RESISTANCE (at 20°C):
 77.0 ohms/1000 ft (253 ohms/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 g
 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 megohms for 1000 ft (152 megohms for 1 km) (minimum)

LIFE CYCLE: 200 ± 3°C for 168 hours
 MOISTURE RESISTANCE: 500 megohms for 1000 ft (152 megohms 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 (POST ENVIRONMENTAL):
 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 "*" the part number above shall indicate the number of conductors.

Note: Nominal values are for information only. Nominal values are not requirements.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. TE Connectivity also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

Page 1 of 1	Raychem, TE Connectivity, and TE connectivity (logo) are trademarks.	 <p>Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-522-6752</p>
	DIMENSIONS ARE IN INCHES AND, UNLESS OTHERWISE DESIGNATED, ARE NOMINAL	
	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.	