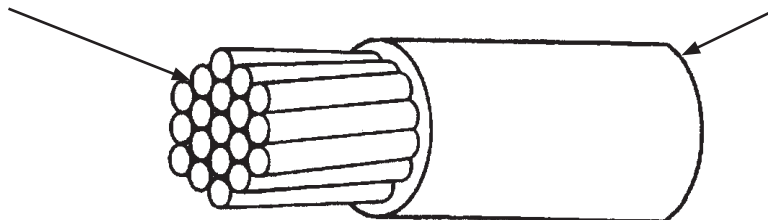


SPECIFICATION CONTROL DRAWING				TRF-X	
TITLE INSULATED POWER CABLE, 600 VOLT				Date 7-1-09	Revision K
Testing Procedures per Raychem Specification 35 unless otherwise specified.					

CONDUCTOR - TIN-COATED COPPER


INSULATION - THERMORAD F



CONSTRUCTION DETAILS						
PART NUMBER 1/	WIRE SIZE (AWG) or (MCM)	CONDUCTOR STRANDING (number x AWG)	NOMINAL DIAMETER OF STRANDED CONDUCTOR (in.)	FINISHED WIRE		
				MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft)	DIAMETER (in.)	NOMINAL WEIGHT (lbs/1000 ft.)
TRF-14-*	14	37 x 30	.068	3.11	.128 ± .004	17.8
TRF-12-*	12	37 x 28	.087	2.02	.147 ± .004	23.3
TRF-10-*	10	37 x 26	.107	1.26	.167 ± .005	34.9
TRF-8-*	8	133 x 29	.160	.701	.250 ± .008	66.0
TRF-6-*	6	133 x 27	.201	.445	.291 ± .009	97.5
TRF-4-*	4	133 x 25	.254	.280	.344 ± .010	147.
TRF-3-*	3	133 x 24	.298	.219	.388 ± .012	209.
TRF-2-*	2	665 x 30	.325	.183	.415 ± .012	233.
TRF-1-*	1	817 x 30	.365	.149	.475 ± .014	289.
TRF-0-*	0	1045 x 30	.411	.116	.521 ± .016	363.
TRF-00-*	00	1330 x 30	.457	.091	.567 ± .017	451.
TRF-000-*	000	1665 x 30	.524	.071	.634 ± .019	560.
TRF-0000-*	0000	2109 x 30	.580	.056	.690 ± .021	696.
TRF-250-*	250	2499 x 30	.682	.045	.812 ± .024	893.
TRF-350-*	350	3458 x 30	.849	.036	.939 ± .028	1188.

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

1/ COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681. OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

Page 1 of 2	The TE logo, Tyco Electronics, Raychem and Thermorad are trademarks.		Raychem Wire & Cable 501 Oaks Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297
	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.		

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 125°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

ACCELERATED AGING: 175 ± 4°C for 4 hours, hung straight, then bend over a 12 X mandrel, no cracking

CONCENTRICITY: 70% (minimum)

FLAMMABILITY: Per ICEA-S-19-81

INSULATION ELONGATION AND TENSILE STRENGTH:

Elongation, 150% (minimum)

Tensile Strength, 2000 lbf/in² (minimum)

INSULATION FLAWS:

Spark Test, 2.0 kV (rms), 60 Hz

Impulse Dielectric Test, 6.0 kV (peak)

INSULATION RESISTANCE:

100 megohms for 1000 ft. (minimum)

INSULATION THICKNESS:

For AWG 14 -10, .030 in. (nominal)

For AWG 8 - 2, .045 in. (nominal)

For AWG 1 - 0000, .055 in. (nominal)

For MCM 250 & 350, .065 in. (nominal)

(Minimum wall - 90% of nominal)

AGING STABILITY: 125 ± 3°C for 168 hours

Retention of T & E 60% (minimum)

LOW TEMPERATURE-COLD BEND:

-30 ± 2°C for 4 hours, 12 X mandrel, weight sufficient to hold straight, no cracking

PART NUMBER:

The “*” in the part numbers on page 1 shall be replaced by a color code designator.

1/ Example: AWG 6, black: TRF-6-0

PRODUCT IDENTIFICATION: Mark outer insulation in a contrasting color at 12 inch (nominal) intervals with the following:
“ RAYCHEM TRF-AWG 125°C 600V Year of Manufacturing “

Note: Product identification - not applicable - when used as component in another cable.