

# SPECIFICATION CONTROL DRAWING

**55A4832**

Title

THREE CONDUCTOR, JACKETED, NORMAL WEIGHT

Date

06-04-04

Revision

A

This specification sheet forms a part of the latest issue of Raychem Specification 55A

COMPONENT WIRES – 55A0812

JACKET – RADIATION-CROSSLINKED  
MODIFIED ETFE



## CABLE CONSTRUCTION DETAILS

PART NUMBER 1/	CONDUCTOR SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lb/1000 ft.)
		MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55A4832-26-*	26	.006	.008	.102	.107	7.3
55A4832-24-*	24	.006	.008	.113	.119	9.4
55A4832-22-*	22	.006	.008	.126	.132	13.1
55A4832-20-*	20	.006	.008	.143	.150	18.3
55A4832-18-*	18	.006	.008	.167	.175	26.5
55A4832-16-*	16	.006	.008	.184	.193	33.0
55A4832-14-*	14	.007	.009	.223	.234	49.2
55A4832-12-*	12	.007	.009	.260	.273	72.1
55A4832-10-*	10	.007	.009	.307	.323	107.

## CABLE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 200°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms) at sea level

ACCELERATED AGING: 300 ± 3°C for 7 hours

BLOCKING: 200 ± 3°C for 6 hours

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

FLAMMABILITY:

Procedure 1, 3 seconds (maximum); 3 inch (maximum);  
no flaming of facial tissue

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in<sup>2</sup> (minimum)

LIFE CYCLE: 230 ± 2°C for 500 hours

LOW TEMPERATURE-COLD BEND: -65 ± 2°C for 4 hours

PART NUMBER

The "\*" in the part numbers above shall be replaced by color code designators with a slash separating the component wire colors and a dash separating the component wire colors from the jacket color.

Colors shown do not necessarily reflect the sequence of manufacturing.

1/ Example: AWG 20, black, brown and red component wires;  
white jacket: 55A4832-20-0/1/2-9

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.*

*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. HOWEVER, DUE TO LENGTH LIMITATIONS OF THE RAYCHEM PART NUMBER, AN ALTERNATIVE COLOR CODE MAY REPLACE MIL-STD-681 COLOR CODE DESIGNATORS. (EXAMPLE: "901/902..." MAY BE REPLACED BY "Axxx".) OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY, TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.