

SPECIFICATION CONTROL DRAWING

SCD

55LF1142

Title
FOUR CONDUCTOR CABLE, SHIELDED, JACKETED,
ULTRA LOW FLUORIDE, GENERAL PURPOSE, 600 VOLT

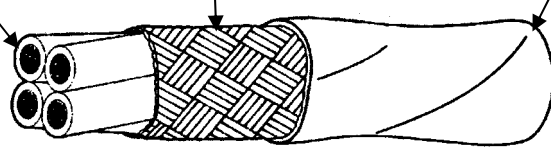
Date
10-24-18

Revision
B

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

COMPONENT WIRES - 55LF0112

SHIELD - SILVER-COATED COPPER

JACKET - ULTRA LOW FLUORIDE,
RADIATION-CROSSLINKED,
MODIFIED ETFE

CABLE CONSTRUCTION DETAILS

PART NUMBER ^{1/}	CONDUCTOR SIZE (AWG)	SHIELD SIZE (AWG)	JACKET THICKNESS (inch)		OUTSIDE DIAMETER (inch)		MAXIMUM WEIGHT (lbs/1000 ft.)
			MINIMUM	NOMINAL	NOMINAL	MAXIMUM	
55LF1142-26-*	26	38	.006	.008	.110	.127	12.1
55LF1142-24-*	24	38	.006	.008	.123	.141	15.4
55LF1142-22-*	22	38	.006	.008	.137	.159	19.7
55LF1142-20-*	20	38	.006	.008	.154	.179	27.0
55LF1142-18-*	18	38	.006	.008	.178	.208	37.7
55LF1142-16-*	16	38	.006	.008	.198	.231	46.4
55LF1142-14-*	14	38	.007	.009	.241	.282	69.1
55LF1142-12-*	12	38	.007	.009	.284	.334	99.6
55LF1142-10-*	10	38	.008	.010	.347	.408	156.

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

COMPONENT WIRE COLOR: Per MIL-STD-681,
except light colors (xL) shall meet Munsell color limits
for UV laser markable wire in SAE AS22759.

DIELECTRIC WITHSTAND: 1500 volts (rms), 60 Hz

FLAMMABILITY: Procedure 1,
3 seconds (maximum), 3 inches (maximum);
no flaming of facial tissue

FLUORIDE EXTRACTION: 70 ± 2°C for 168 hours,
20 ppm (maximum)

JACKET COLOR: Per MIL-STD-681, white preferred

JACKET ELONGATION AND TENSILE STRENGTH:
Elongation, 50% (minimum)

Tensile Strength, 5000 lbf/in² (minimum)

JACKET FLAWS:

Spark Test, 1000 volts (rms)

Impulse Dielectric Test, 6.0 kV (peak)

LIFE CYCLE: 230 ± 3°C for 500 hours

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

SHIELD COVERAGE: 85% (minimum)

VOLTAGE WITHSTAND (Post Environmental):
1000 volts (rms), 60 Hz, 1 minute

^{1/} 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.

Example: AWG 22, light orange, light green, light blue, and
white component wires; white jacket:
55LF1142-22-3L/5L/6L/9-9

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.

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.

^{1/} COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681, EXCEPT LIGHT COLORS SHALL BE DESIGNATED WITH AN "L" AFTER THE COLOR CODE (0L, 1L, 2L, etc.). 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.

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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.



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