,	SPECIFICATION CONTROL DRAWING	SCD		55A0114
Title	WIRE, RADIATION-CROSSLINKED, MODIFIED, ETFE-INSULATED, SILVER-COATED HIGH STRENGTH COPPER ALLOY, LIGHTWEIGHT	Date 2-	7-22	Revision R
	This specification sheet forms a part of the latest issue of Raychem S	Specification &	55A.	
	CONDUCTOR - SILVER-COATED HIGH-STRENGTH COPPER ALLOY	INSULATION	- RADIATIO MODIFIED	N-CROSSLINKED, ETFE

リ

		TABI	LE I. CONSTR	JCTION DETAI	LS		
				TER OF	۲II	NISHED WIRE	
PART NUMBER <u>1</u> /	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	COND	NDED JCTOR ch)	MAXIMUM RESISTANCE AT 20°C	DIAMETER (inch)	MAXIMUM WEIGHT
			MINIMUM	MAXIMUM	(ohms/1000 ft.)	()	(lbs/1000 ft.)
55A0114-30-*	30	7 x 38	.011	.012	117.4	.024 ± .002	.66
55A0114-28-*	28	7 x 36	.014	.016	74.4	.027 ± .002	.91
55A0114-26-*	26	19 x 38	.018	.020	44.8	.032 ± .002	1.4
55A0114-24-*	24	19 x 36	.023	.025	28.4	.037 ± .002	2.0
55A0114-22-*	22	19 x 34	.029	.031	17.5	.043 ± .002	2.9
55A0114-20-*	20	19 x 32	.037	.039	10.7	.050 ± .002	4.4
55A0114-18-*	18	19 x 30	.046	.050	6.8	.060 ± .002	6.5
55A0114-16-*	16	19 x 29	.052	.057	5.3	.068 ± .002	8.3

	TABLE II. PERF	ORMANCE DE	TAILS		
		BEND T	ESTING		
PART NUMBER	MANDREL DIAMETER (inch) (± 3%)		WEIGHT (lb) (± 3%)		
<u>1</u> /	IMMERSION, LIFE CYCLE, AND ACCELERATED AGING	COLD BEND	IMMERSION, LIFE CYCLE, AND ACCELERATED AGING	COLD BEND	
55A0114-30-*	.250	.375	.125	.500	
55A0114-28-*	.250	.375	.125	.500	
55A0114-26-*	.375	.500	.125	.500	
55A0114-24-*	.375	.500	.250	1.00	
55A0114-22-*	.500	.750	.375	1.00	
55A0114-20-*	.500	.750	.500	1.00	
55A0114-18-*	.500	1.00	.500	1.00	
55A0114-16-*	.750	1.00	.750	1.00	

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. TE Connectivity Corporation 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.

Raychem, TE Connectivity, TE Connectivity (logo), and TE (logo) are trademarks. 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.



Raychem Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-522-6752

© 2015-2022 TE Connectivity Corporation. All rights reserved.



SCD

	WIRE RATINGS AND ADDITIONAL REQUIREMENTS
TEMPERATI	JRE RATING: 200°C,
	continuous conductor temperature
	ATING: 600 volts (rms) at sea level
	ED AGING (CROSSLINKING PROOF): 300 ± 3°Cfor 7 hours 230 + 3°C for 24 hours
COLOR: whit	
	CITY: 70% (minimum)
HUMIDITY R	TY: Procedure 1, 3 seconds (maximum); 3 in. (maximum); no flaming of facial tissue. ESISTANCE: Insulation Resistance, 5000 megohms for 1000 ft. (minimum)
	FION, COLOR STRIPING AND BAND DURABILITY: (250 strokes) (minimum), 500 g weight
•	Diameter increase 5% (maximum); no cracking, no dielectric breakdown
	ELONGATION AND TENSILE STRENGTH:
	, 75% (minimum)
Tensile sti	rength, 5000 lbf/in² (minimum)
	t, 5.7 kV (rms) at 3 kHz
•	electricTest, 8.0 kV (peak);
	RESISTANCE: 5000 megohms for 1000ft (minimum)
	THICKNESS: 0.005 in. (minimum)
	:230 ± 3°C for 500 hours ERATURE-COLD BEND:-65 ± 3°C for4 hours
	$: 230 \pm 3^{\circ}$ C, for 6 hours, 0.125 in. (maximum) in 12 in.
	LITY: Per MIL-STD-202, Method 208, without steam aging
SMOKE TES	ST: 250 ± 5°C. No visible smoke
	ESISTANCE: 500 Megohms-in. (minimum), both readings
	HOCK RESISTANCE: 200 ± 3°C, 0.060 in. (maximum)
	'ITHSTAND TEST (Post Environmental): 2500 volts (rms), 60 Hz 示 313 ± 3°C for 2 hours
1/PART NUM	IBER:
	e part numbers on page 1 shall be replaced by a color code designator.
Example:	AWG 22, white: 55A0114-22-9 AWG 22, white with black stripe: 55A0114-22-90
	(Note: Striping/marking is not available for AWG 28 and 30.)

 $\underline{1}$ / See footer section on page 1