SPECIFICATION CONTROL DRAWING

82A0812

WIRE, RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE-INSULATED, NORMAL WEIGHT, GENERAL PURPOSE, 600 VOLT

4-10-06

Revision Н

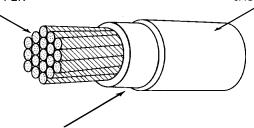
This specification sheet forms a part of the latest of Raychem Specification 80.

CONDUCTOR - SILVER-COATED COPPER

JACKET -

Date

RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE



PRIMARY INSULATION - RADIATION-CROSSLINKED, MODIFIED FLEXIBLE ETFE **COLOR - LIGHT GREEN**

TABLE I. CONSTRUCTION DETAILS									
					FINISHED WIRE				
PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)			MAXIMUM RESISTANCE AT 20°C	DIAMETER (in.)	MAXIMUM WEIGHT (lb/1000ft)		
			MINIMUM	MAXIMUM	(ohms/1000 ft)				
82A0812-26-*	26	63 x 44	.017	.021	46.9	.038 ± .003	1.7		
82A0812-24-*	24	105 x 44	.023	.027	28.2	$.044 \pm .003$	2.5		
82A0812-22-*	22	154 X 44	.029	.033	19.2	$.054 \pm .003$	3.7		
82A0812-20-*	20	154 X 42	.037	.043	11.7	$.064 \pm .004$	5.2		
82A0812-18-*	18	259 X 42	.047	.053	7.14	.076 ± .004	8.0		
82A0812-16-*	16	259 x 40	.061	.067	4.62	.092 ± .005	11.9		
82A0812-14-*	14	665 x 42	.078	.086	2.96	.116 ± .005	19.3		
82A0812-12-*	12	665 x 40	.096	.106	1.89	.137 ± .006	27.9		
82A0812-10-*	10	665 x 38	.126	.140	1.12	.187 ± .008	50.0		
82A0812-8-*	8	665 x 36	.157	.173	.714	.230 ± .008	77.3		
82A0812-6-*	6	1045 x 36	.192	.208	.490	.277 ± .010	118.		
82A0812-4-*	4	1665 x 36	.265	.285	.326	.359 ± .010	190.		
82A0812-2-*	2	1665 x 34	.325	.345	.204	.433 ± .016	282.		
82A0812-0-*	0	2660 x 34	.435	.465	.133	.558 ± .016	442.		

TABLE II. PERFORMANCE DETAILS						
	BEND TESTING					
PART NUMBER	MANDREL DIAMETER (inch) (±3%)	WEIGHT (lb) (± 3%)				
1/	CROSSLINKING PROOF TEST	CROSSLINKING PROOF TEST				
82A0812-26-*	.375	.500				
82A0812-24-*	.500	.750				
82A0812-22-*	.500	1.00				
82A0812-20-*	.500	1.50				
82A0812-18-*	.750	2.00				
82A0812-16-*	1.00	2.00				
82A0812-14-*	1.00	3.00				
82A0812-12-*	1.50	3.00				
82A0812-10-*	2.00	3.00				
82A0812-8-*	3.00	4.00				
82A0812-6-*	4.00	4.00				
82A0812-4-*	5.00	4.00				
82A0812-2-*	6.00	6.00				
82A0812-0-*	8.00	6.00				

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

Electronics

em Wire & Cable 501 Oakside Avenue Redwood City, CA 94063-3800 Phone: 1-800-227-8816 Fax: 1-650-361-6297

^{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

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level

CONCENTRICITY: 70% (minimum)

CROSSLINKING PROOF TEST: 300 ± 3°C,

30 minutes for AWG 26 - 14, 1 hour for AWG 12 and larger IDENTIFICATION AND COLOR STRIPING DURABILITY:

125 cycles (250 strokes) (minimum), 500 g weight

INSULATION ELONGATION AND TENSILE STRENGTH:

AWG 26, Elongation, 75% (minimum)

Tensile Strength, 3000 lbf/in² (minimum)

AWG 24 -10, Elongation, 75% (minimum)

Tensile Strength, 3500 lbf/in² (minimum)

AWG 8 - 0, Elongation, 125% (minimum)

Tensile Strength, 3000 lbf/in² (minimum)

INSULATION FLAWS:

Primary Insulation,

Spark Test, 1.5 kV (rms) at 3 kHz

Impulse Dielectric Test, 6.0 kV (peak)

Finished Wire,

Spark Test, 3.0 kV (rms) at 3 kHz

Impulse Dielectric Test, 8.0 kV (peak)

INSULATION THICKNESS:

For AWG 26 - 18, .004 inch (minimum) for primary insulation

.004 inch (minimum) for outer jacket

For AWG 16 - 10, .005 inch (minimum) for primary insulation

.005 inch (minimum) for outer jacket

.012 inch (minimum) for outer jacket

For AWG 2 - 0, .010 inch (minimum) for primary insulation

.015 inch (minimum) for outer jacket

JACKET COLOR: White preferred

PRODUCT IDENTIFICATION: AWG 26 - 10, black ink only

AWG 8 and larger, black ink preferred

SECANT MODULUS: (Test per ASTM D 882)

AWG 26 - 10: 5.0 x 10⁴ lbf/in² (maximum)

AWG 8 and larger: 4.0 x 10⁴ lbf/in² (maximum)

2% strain, 2 inch jaw separation, 0.2 inch/minute

SHRINKAGE: 150 ± 3°C for 6 hours,

AWG 26 -10, 0.13 inch (maximum) in 12 inches

AWG 8 - 0, 0.25 inch (maximum) in 12 inches

VOLTAGE WITHSTAND TEST (Post Environmental): 2500 volts (rms), 60 Hz

PART NUMBER:

The "*" in the part numbers on page 1 shall be replaced by color code designators.

1/ Example: AWG 16, white wire: 82A0812-16-9

AWG 16, white with blue stripe: 82A0812-16-96

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for TE Connectivity manufacturer:

Other Similar products are found below:

D38999/24FJ4AN 570416-000 CLTEQ-M81CE-SSRELAY-4-20V 4-1195131-0 650069-000 SMD100-2 358838-000 CB-1022B-78

RM707012 RP410012 MMS42 1-640426-8 2EDL4CM DTS20W19-11PD-3028-LC RM202615 NC6-P104-06 MSPS103B DTS26F2141HE-LC DTS26F21-41AE DTS26F21-41PE-LC DTS26F21-11SE-3028-LC 30DCB6 1932144-1 293545-4 LVR125S MS27466T25F4PB

CKB-38-78010 TR04AI-TINELLOCKRING 1206SFF150F/63-2 D38999/20JB35HA TE1500A2R2J D38999/20WC8BB DTS24F19-11SC3028-LC D38999/24WG11HA D38999/24WG11HN MS27467T21F11H DJT16E21-11HA MS27467T21F35J MS27467T21F11J

MS27467T21F16H-LC MS27467T21F35H MS27467T21F41H-LC 1206SFH150F/24-2 RP330024 DJT16E21-11PA-LC DJT16E21-11HA
LC DJT16E21-11AA MS27467T21B11JA DJT16E21-11JA MS27467T21B11JA-LC