

SPECIFICATION CONTROL DRAWING

FDR25S

Title WIRE, RADIATION-CROSSLINKED, POLYESTER BLEND-INSULATED,
FLEXIBLE CABLE, 1000 VOLT

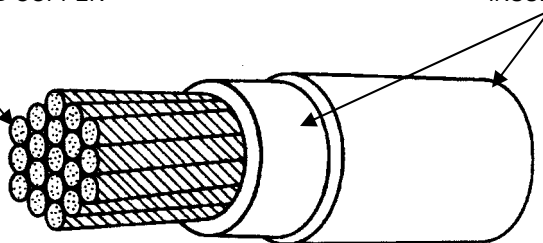
Date 2-24-17

Revision J

This specification sheet forms a part of the latest issue of Raychem Specification WCD 3304 to the extent as specified herein.

CONDUCTOR - TIN-COATED COPPER

INSULATION - FDR-25
COLOR - BLACK



CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch) (mm)		FINISHED WIRE				
					MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) (ohms/km)	DIAMETER (inch) (mm)			MAXIMUM WEIGHT (lbs/1000 ft.) (kg/km)
			MINIMUM	MAXIMUM		MINIMUM	NOMINAL	MAXIMUM	
FDR25S-16	16	259 x 40	.061 (1.55)	.067 (1.70)	4.53 (14.9)	.093 (2.36)	.097 (2.46)	.101 (2.57)	11.5 (17.1)
FDR25S-14	14	665 x 42	.078 (1.98)	.086 (2.18)	2.96 (9.71)	.112 (2.84)	.116 (2.95)	.120 (3.05)	17.9 (26.6)
FDR25S-12	12	665 x 40	.096 (2.44)	.106 (2.69)	1.89 (6.20)	.132 (3.35)	.136 (3.45)	.140 (3.56)	26.1 (38.8)
FDR25S-10	10	665 x 38	.126 (3.20)	.140 (3.56)	1.12 (3.67)	.164 (4.17)	.171 (4.34)	.178 (4.52)	43.3 (64.4)
FDR25S-8	8	1078 x 38	.160 (4.06)	.180 (4.57)	.711 (2.33)	.244 (6.20)	.256 (6.50)	.268 (6.81)	77.6 (115.)
FDR25S-6	6	1764 x 38	.197 (5.00)	.221 (5.61)	.450 (1.48)	.288 (7.32)	.303 (7.70)	.318 (8.08)	117. (174.)
FDR25S-4	4	1666 x 36	.250 (6.35)	.290 (7.37)	.275 (.902)	.369 (9.37)	.384 (9.75)	.399 (10.1)	176. (262.)
FDR25S-2	2	2646 x 36	.323 (8.20)	.347 (8.81)	.171 (.561)	.498 (12.6)	.515 (13.1)	.532 (13.5)	306. (455.)
FDR25S-0	0	4256 x 36	.390 (9.91)	.430 (10.9)	.110 (.361)	.582 (14.8)	.602 (15.3)	.622 (15.8)	442. (658.)
FDR25S-00	00	5320 x 36	.440 (11.2)	.480 (12.2)	.087 (.285)	.644 (16.4)	.668 (17.0)	.692 (17.6)	551. (820.)
FDR25S-000	000	6783 x 36	.510 (13.0)	.550 (14.0)	.068 (.223)	.730 (18.5)	.754 (19.2)	.778 (19.8)	699. (1040.)
FDR25S-0000	0000	8379 x 36	.640 (16.3)	.680 (17.3)	.055 (.180)	.860 (21.8)	.884 (22.5)	.908 (23.1)	933. (1388.)

WIRE RATINGS AND ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 125°C

Maximum continuous conductor temperature

VOLTAGE RATING: 1000 volts (rms) at sea level

CONCENTRICITY: 70% (minimum)

INSULATION ELONGATION AND TENSILE STRENGTH

(both layers pulled together):

Elongation, 300% (minimum)

Tensile Strength, 2000 lbf/in² (14 N/mm²) (minimum)

INSULATION (JACKET) FLAWS: Spark Test, 3.0 kV (rms)

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

Tyco Electronics 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/ OTHER CODES AND SUFFIXES MAY BE ADDED TO THE PART NUMBER, AS NECESSARY,
TO CAPTURE ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE PURCHASE ORDER.

