

SPECIFICATION CONTROL DRAWING

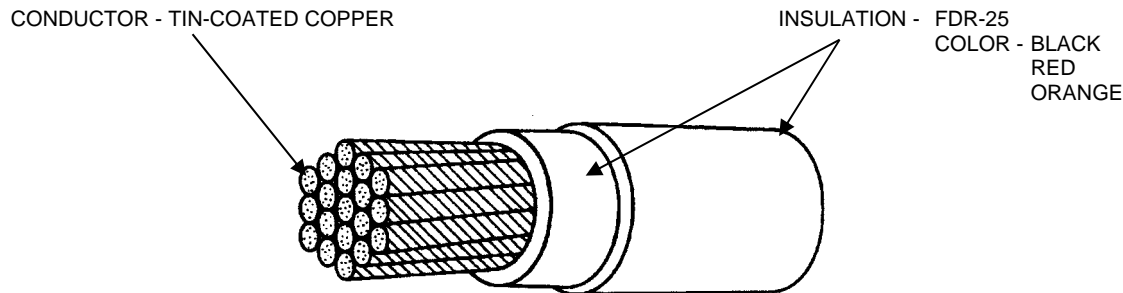
FDR25S

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

Date 4-3-17

Revision K

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



CONSTRUCTION DETAILS

PART NUMBER 1/	WIRE SIZE (AWG)	CONDUCTOR STRANDING (number x AWG)	DIAMETER OF STRANDED CONDUCTOR (inch) (mm)		MAXIMUM RESISTANCE AT 20°C (ohms/1000 ft.) (ohms/km)	FINISHED WIRE			MAXIMUM WEIGHT (lbs/1000 ft.) (kg/km)
			MINIMUM	MAXIMUM		DIAMETER (inch) (mm)			
						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
 COLOR: Black preferred
 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)

1/ PART NUMBER: The "*" in the part numbers above shall be replaced by a color code designator.
 Example: AWG 8, black: FDR25S-8-0

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 COLORS MAY BE AVAILABLE UPON REQUEST - CONTACT TE FOR MORE INFORMATION.
 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.

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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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