



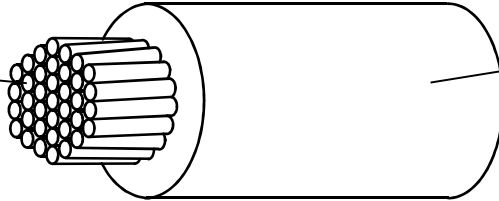
Specification Control Drawing

FDR25S
Issue L
6th June 2017
Page 1 of 2
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FLEXIBLE POWER CABLE, RADIATION CROSSLINKED POLYESTER BLEND, TIN COATED COPPER, 1000/1600 VOLT, 130°C RATED

The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of the referenced specifications. This document takes precedence over documents referenced herein.

Conductor -
High Strand
Tin Coated Copper



Insulation -
Radiation Crosslinked
Polyester Blend

CONSTRUCTION DETAILS									
Part Description	Wire Size (AWG)	CONDUCTOR			FINISHED WIRE				
		Conductor Stranding No x AWG	Nominal Strand Diameter (mm)	Maximum Diameter (mm)	Maximum DC Resistance @ 20°C (Ohms/km)	Outer Diameter (mm)			Maximum Weight (kg/km)
						Lower Spec Limit	Target	Upper Spec Limit	
FDR25S-16-*	16	259 x 40	0.079	1.70	14.5	2.36	2.46	2.57	17.2
FDR25S-14-*	14	665 x 42	0.063	2.18	9.51	2.84	2.95	3.05	26.8
FDR25S-12-*	12	665 x 40	0.079	2.69	6.06	3.35	3.45	3.56	39.1
FDR25S-10-*	10	665 x 38	0.100	3.55	3.60	4.17	4.34	4.52	65.7
FDR25S-8-*	8	1078 x 38	0.100	4.57	2.33	6.20	6.50	6.81	117.2
FDR25S-6-*	6	1764 x 38	0.100	5.61	1.47	7.32	7.70	8.08	177.4
FDR25S-4-*	4	1666 x 36	0.127	7.37	0.902	9.37	9.75	10.10	266.2
FDR25S-2-*	2	2646 x 36	0.127	8.81	0.561	12.60	13.10	13.50	452.0
FDR25S-0-*	0	4256 x 36	0.127	10.92	0.360	14.80	15.30	15.80	660.6
FDR25S-00-*	00	5320 x 36	0.127	12.10	0.285	16.40	17.00	17.60	826.3
FDR25S-000-*	000	6783 x 36	0.127	13.97	0.223	18.50	19.20	19.80	1045.5
FDR25S-0000-*	0000	8379 x 36	0.127	17.27	0.180	21.80	22.50	23.10	1392.7

COLOUR CODE & AVAILABILITY:

The '*' in the part number shall be replaced by a standard colour code designator in accordance with Mil Std 681. 'e.g. FDR25S-16-0, Black Insulation.

PERFORMANCE REQUIREMENTS:

To be tested to and meet the requirements of the issue in effect of Raychem Specification WCD 2002 where applicable and additional electrical testing as follows:

Insulation Flaws: Routine Spark Test to issue in effect of BS5099:

Conductor size (AWG)	Test Voltage	
	H.F (kV)	Impulse (kV)*
16 - 10	6	7
8	8	11
6 - 4	10	13
2	14	20
0	15	n/a
00 - 0000	17	n/a

*Where applicable

APPROVAL:

Electronic sign off - no signatures will appear.

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