

 	<h1>Engineering Report Number 1392</h1>	ITT Cannon Jays Close, Viabes Estate, Basingstoke, Hants, RG22 4BA Tel: +44 (0) 1256 311200 Fax: +44 (0) 1256 336562
Description: <h2 style="text-align: center;">Powerlock Termination Guide - Termination Test Data</h2>		
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1. OVERVIEW

The test data shown below forms part of the Powerlock Termination Guide and should be used in conjunction with this guide. The table will be continually updated as new cables are tested.

2. TERMINATION TEST DATA

Table 1 below shows the test results obtained for specific combinations of contact, cable, crimp tool and die.

Results for the following termination methods are shown;

- Crimp termination.
- Set screw termination.

3. DISCLOSURE STATEMENT

As there are many cables made to the same specification but with different measurements, it is advisable to contact your local sales office so they can advise the best possible crimping solution. There are also many crimping tools and crimping die combinations available and as such ITT Industries cannot be held responsible for defective crimps unless a sample of cable is submitted for confirmation testing.

4. CONTACT DETAILS

If any further assistance is required, please contact;

UK	44.1256.311200
Germany	49.7151.699.0
Italy	39.2.93532.1
USA	1.860.274.9681

To enhance the level of information made available for this product range, this document along with all relevant information on the Powerlock range can be viewed on the ITT Industries website: <http://www.ittcannon.com/>

Termination Test Data
Table 1.

Contact Size (mm ²)	Cable Type and Cable Size (mm ²)	Termination Method	Crimp Tool	Crimp Die	Die Origin	Voltage Drop Max Value (mV)	Tensile Load Max Value (N)	Remarks		
25	Triangle CP125EPT 25mm ²	Setscrew		-	-	3.72	4958	Recommended		
35	Lineax / Titanex H07 RN-F 35	Single Crimp	C130	30221	ITT	20.63	4327			
				30222	ITT	27.28	3403			
		Double Crimp	C130	30221	ITT	6.51	4251			
				30222	ITT	8.95	5877			
		Setscrew		-	-	4.20	6340	Recommended		
50	Triangle CP150EPT 50mm ²	Single Crimp	C130	30222	ITT	4.23	2704			
				30223	ITT	10.55	2194			
		Double Crimp	C130	30222	ITT	3.08	3247			
				30223	ITT	4.45	4286			
			Setscrew		-	-	3.07	7300	Recommended	
	Radaflex SDI 50 50mm ²	Single Crimp	C130	30222	ITT	3.80	7122	Recommended		
				30223	ITT	16.77	2665			
		Double Crimp	C130	30222	ITT	3.30	9158	Recommended		
			30223	ITT	4.06	6050				
		Setscrew		-	-	2.79	7567	Recommended		
70	Radaflex SDI 70 70mm ²	Single Crimp	C130	30223	ITT	3.68	13212	Recommended		
				30224	ITT	7.93	8205			
		Double Crimp	C130	30223	ITT	3.01	13882	Recommended		
				30224	ITT	3.29	13913	Recommended		
				Setscrew		-	-	2.20	11111	Recommended
				Single Crimp	C130	30224	ITT			Not suitable
95	Radaflex SDI 95 95mm ²	Single Crimp	C130	30224	ITT			Not suitable		
				30235	ITT			Not suitable		
		Double Crimp	C130	30224	ITT			Not suitable		
				30235	ITT			Not suitable		
			Setscrew		-	-	2.93	11914	Recommended	
	Lineax H07RNF 95 95mm ²	Single Crimp	C130	30224	ITT	4.46	7559			
				30235	ITT	8.00	4705			
		Double Crimp	C130	30224	ITT	2.58	6778			
				30235	ITT	3.25	12644	Recommended		
				Setscrew		-	-	2.65	10030	Recommended
			Single Crimp	C130	30224	ITT	14.43	8315		
107	Radaflex SDI 95 95mm ²	Single Crimp	C130	30235	ITT	40.72	4538			
				30224	ITT	3.19	12299	Recommended		
		Double Crimp	C130	30235	ITT	4.10	6270			
				30224	ITT	2.46	12306	Recommended		
		Setscrew		-	-	2.46	12306	Recommended		
120	Triangle CP1120EPT 120mm ²	Single Crimp	C130	30235	ITT	13.28	5672			
				30236	ITT			Not suitable		
		Double Crimp	C130	30235	ITT	5.37	10889			
				30236	ITT			Not suitable		
			Setscrew		-	-	2.28	10066	Recommended	
	Radaflex SDI 120 120mm ²	Single Crimp	C130	30235	ITT	74.60	5463			
				30236	ITT	7.26	2920			
		Double Crimp	C130	30235	ITT	2.72	20066			
				30236	ITT	4.16	3494			
				Setscrew		-	-	1.83	14724	
				Single Crimp	C130	30235	ITT	6.57	6311	
	Titanex 11 H07RNF 120 120mm ²	Single Crimp	C130	30235	ITT			Not suitable		
				30236	ITT			Not suitable		
		Double Crimp	C130	30235	ITT	2.49	7711			
			30236	ITT			Not suitable			
		Setscrew		-	-	2.73	11442	Recommended		
150	Lineax / Titanex H07 RN-F 150	Single Crimp	C130	30235	ITT	3.61	11236			
				30236	ITT	8.34	11660			
		Double Crimp	C130	30235	ITT	2.54	19613	Recommended		
				30236	ITT	2.84	17456	Recommended		
185	SDI Radaflex 185 185mm ²	Single Crimp	C130	30237	ITT	7.69	12993			
				30228	ITT	8.02	4368			
		Double Crimp	C130	30237	ITT	1.74	20612	Recommended		
				30228	ITT	2.60	11594			
240	Triangle CP1240EPT 240mm ²	Single Crimp	C130	30228	ITT	5.67	9419	Not suitable		
				30229	ITT	6.13	13872			
		Double Crimp	C130	30228	ITT	1.93	21192	Recommended		
				30229	ITT	1.57	21335	Recommended		
	Radaflex SDI 240 240mm ²	Single Crimp	C130	30228	ITT	36.59	5738			
				30229	ITT	28.34	11049			
		Double Crimp	C130	30228	ITT	2.72	10629			
				30229	ITT	3.91	16526			
300	Radaflex SDI 300	Single Crimp	C130	30228	ITT			Not suitable		

Notes

1. Combinations marked 'recommended' produce the optimum combination of results.
2. Combinations marked 'not suitable' produced results that are not acceptable and therefore should be avoided.
3. Combinations marked 'not yet available' will be published as soon as they are available.
4. This table is continually updated as new contact, cable and crimp die combinations are tested.