

Test Ropes

Available for Calibration and Testing of **RTM-D**
Digital Cable Tension Meter

	Steel	
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Rope No.)	Rope Ø (mm)	Rope construction	Wire Ø (mm)	Rope Area (mm ²)	Rm minimum (N/ mm ²)	Min Breaking Load (kN)	Max Test Load at PIAB (kN)	Notes	Material
047	6.0	1x7	2.0	20.6	1380	28	11		
001	6.4	1x7	2.1	24	1170	28	11		
002	7.3	1x7	2.4	33	1240	41	16		
003	9.2	1x7	3.1	52	1300	68	27		
004	9.8	1x7	3.3	59	1340	79	31		
005	10.6	1x7	3.5	68	1320	90	36		
006	11.5	1x7	3.8	80	1320	106	42		
007	12.1	1x7	4.0	89	1320	118	47		
008	13.1	1x7	4.3	105	1300	136	54		
009	12.5	1x7	4.2	95	1730	164	65	High Tensile	
010	15.3	1x7	5.1	139	1670	232	93	High Tensile	
011	10.0	7x7 + Plastic cover	1.1	46	1480	68	27	Norselay	
012	6.0	1x19	1.2	21	1240	26	10.5		
013	9.0	1x19	1.8	49	1280	62	25		
014	10.6	1x19	2.2	68	1280	86	34		
015	13.4	1x19	2.7	109	1280	140	56		
016	15.4	1x19	3.1	142	1310	186	74		
017	16.0	1x19	3.2	153	1320	202	81		
018	17.7	1x19	3.5	185	1300	241	96		
019	21.8	1x19	4.3	280	1340	374	149		
057	12.0	1x37	1.75	86	1350	116	46		
020	18.0	1x37	2.5	190	1200	225	90		
058	20.0	1x37	2.9	239	1200	286	114		
022	21.2	1x37	3.1	270	1280	344	137		
023	22.2	1x37	3.3	295	990	290	115		
059	24.0	1x37	3.5	344	1200	413	165		
024	24.8	1x37	3.5	364	1330	480	192		
025	27.0	1x37	3.9	441	1300	570	228		
026	30.2	1x37	4.4	520	1330	692	276		
027	35.5	1x37	5.2	760	1330	998	399	NOT AVAILABLE ANYMORE	
021	20.0	1x61	2.3	236	1380	323	129		
063	25,4	1x61		375			200		
046	28.0	1x61	3.2	462	1770	819	327		
028	32.0	1x61	3.6	604	1380	834	333		
029	36.0	1x61	4.0	766	1320	1010	404		
030	19.0	3x7	3.0	145	1320	190	76		
031	10.0	6x7+core	1.0	36	1620	58	23	42 wires	

Rope No.)	Rope Ø (mm)	Rope construction	Wire Ø (mm)	Rope Area (mm ²)	Rm minimum (N/mm ²)	Min Breaking Load (kN)	Max Test Load at PIAB (kN)	Notes	Material
032	8.0	6x19+ core		24.6	1530	37	15	114 wires No end-fittings	
033	10.0	6x19+ core	0.66	38.5	1530	58.6	23	114 wires Zn	
034	14.0	6x19+ core		75	1530	115	46	114 wires	
035	16.0	6x19+ core		98	1530	150	60	114 wires	
036	22.0	6x19+ core		186	1530	280	112	114 wires	
037	24.0	6x19+ core		222	1530	336	134	114 wires	
039	6.0	6x19-WSC	0.38	15.0	1770	21.2	8.4	133 wires	
040	11.5	6x19-WSC		59	1440	84	33	133 wires	
048	8.0	7x19		32.4	1960	67.1	26	Python 6FV	
049	9.0	7x19		41.9	1960	82.2	32	Python 6FV	
050	10.0	7x19		50.2	1960	98.3	39	Python 6FV	
051	11.0	7x19		59.3	1960	116.2	46	Python 6FV	
052	12.0	7x19		69.2	1960	135.6	54	Python 6FV	
053	16.0	7x19 Python		117.3	1960	229.9	91	Pfeifer Python 6FV	
054	18.0	7x19 Python		144.4	1960	283.1	113	Pfeifer Python 6FV	
055	20.0	7x19 Python		175.0	1960	342.9	137	Pfeifer Python 6FV	
056	22.0	7x19 Python		208.5	1960	408.6	163	Pfeifer Python 6FV	
062	10.0	6x36+ core		39.3	1770	58	23	216 wires	
042	13.0	6x36+ core		66.4	1120	74	29	216 wires	
060	24.0	CASAR		299	1770	455	182	Multicore 8 outer strands	
061	16.0	8x ca19+W		135	1680	226	90	Multicore 8 outer strands	

	Stainless Steel	
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Rope No.)	Rope Ø (mm)	Rope construction	Wire Ø (mm)	Rope Area (mm ²)	Rm minimum (N/mm ²)	Min Breaking Load (kN)	Max Test Load at PIAB (kN)	Notes	Material
201	8.5	1x12	2.2	42	1000	42 (1000)	16		
202	2.0	1x19	0.4	2.3	1300	3.0	1.2		
203	4.0	1x19	0.8	9.5	1300	12	4.8		
224	6.0	1x19	1.2	21.4	1000	21	8.5		
204	7.0	1x19	1.4	29	1300	36	12		
205	8.0	1x19	1.6	37	1000	37	15		
206	10.0	1x19	2.0	59	1000	60	24		
221	12.0	1x19	2.45	85.4	1000	85	34		

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207	14.5	1x19	2.9	125	1000	127	50		
222	16.0	1x19	3.25	151	1000	151	60		
226	19.0	1x19	3.9	214	1000	214	85		
223	20.0	1x19	4.1	237	1000	237	94		
217	8.0	7x7	0.85	28.1	1300	36.1	14	(6x7+IWS)	
208	9.5	6x7+core	0.95	32	1000	33	13	(6x7+FC)	
218	6.0	7x19	0.38	15	1000	15	6	(6x19+IWS)	
219	8.0	7x19	0.50	26	1000	26	10	(6x19+IWS)	
220	8.5	7x19	0.53	30	1000	30	12	(6x19+IWS)	
209	12.0	7x19	0.70	59	1000	59	24	(6x19+IWS)	
230	12.0	7x19							
228A	12.5	7x19	0.75	65	1000	65	26	(6x19+IWS)	
210	12.0	1x37	1.8	86.6	1000	86	34		
231	14.0	7x19							
211	16.0	1x37	2.4	153	1000	153	61		
232	16.0	7x19							
225	18.0	1x37	2.7	194	1000	194	77		
236	18.0	1x37		197		276	110	Spiral strand FATZER	
233	18.0	7x19							
212	20.0	1x37	3.0	239	1000	239	95		
234	20.0	7x19							
235	22.0	7x19							
213	24.0	1x37	3.5	344	1000	350	140		
227	22.0	1x61	2.5	285	1000	285	114		
214	26.0	1x61	3.0	424	1000	399	159		
228	28.0	1x61	3.2	490	1000	490	196		
215	30.0	1x61	3.4	540	1000	550	220		
216	32.0	1x91	3.0	640	1000	640	256		
237	32.0	1x91		618		854	342	Spiral strand FATZER	
229	36.0	1x91	3,4	825	1000	825	330		

	Aluminium + Steel (Al + Fe)
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301	10.1	7xAl 1xFe	3.35	62		18	7		
303	16.5	12xAl 7xFe	3.3	100 Al 60 Fe		85	34		
304	16.6	30xAl 7xFe	2.35 Fe 2.35 Al	130 Al 30 Fe		56	22		
305	32.0	42xAl 7xFe	4.4 / 2.5	565Al 32Fe		132	53		
306	21.0	1x61	2.24	240				No end-fittings	

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307	23.6	Dove 26xAl 7xFe	Al3.72 Fe2.89	282.0 + 46.5		100.0	19	26 Al + 7 Fe	
310	15.65	26xAl 7xFe	Al-2.45 Fe-1.95	143.5		45.9	18	AFL-6 120 No end-fittings	
311	12.75	12xAl 7xFe	Al-2.55 Fe-2.55	97.03		52.2	21	AFL-1,7 70	
313	11.26	6xAl 1xFe	Al-3.75 Fe-3.75	77.3		22.7	9	AFL-6 70	
314	14.3	Penguin 6xAl 1xFe	Al-4.77 Fe-4.77	107.2 + 17.8		37	14	4/0 ACSR No end-fittings	
315	18.3	Linnet 26xAl 7xFe	Al-2.89 Fe-2.25	170.6 + 27.8		63	25	336.4 ACSR	
316	23.2	Parakeet 24xAl 7xFe	Al-3.87 Fe-2.58	282.2 + 36.6		88	35	556.5 ACSR	
317	27.0	Tern 45xAl 7xFe	Al-3.38 Fe-2.25	403.8 + 27.83		98	39	795 ACSR	
318	34.2	Bittern 45xAl 7xFe	Al-4.27 Fe-2.85	644.4 + 44.6		151	60	1272 ACSR	
319	38.2	Lapwing 45xAl 7xFe	Al-4.78 Fe-3.18	807.8 + 55.6		187	75	1590 ACSR	
320	31.5	54xAl 7xFe	Al-3.50 Fe-3.50	586.9		159.8	64	AFL-8 525 No end-fittings (similar to Oliv)	
322	16.4	Partridge 26xAl 7xFe	Al-2.54 Fe-2.0	134.9 22.0		50.1	20.0	No end-fittings	
323	21.8	Hawk 26xAl 7xFe	Al-3.44 Fe-2.67	241.6 39.2		86.9	34.7	No end-fittings	
324	28.1	Drake 26xAl 7xFe	Al-4.44 Fe-3.45	402.5 65.4		139	55.7		
326	13.2	1x7 Al-clad steel	4.45	100	1150	111	44	Alumoweld Guying + shielding No end-fittings	
328	11.7	26xAl 7xFe	Al-1.85 Fe-1.44	69 11.4		26.3	10.5	DIN 48204-4/84	
329	15.5	26xAl 7xFe	Al-2.44 Fe-1.90	121 19.8		44.9	17.5	DIN 48204-4/84	
330	21,77	26xAl 7xFe	Al-3.44 Fe-2.67	241.6 11.4		86.77	34.7	477 ASCR HAWK	
331	30,42	54xAl 7xFe	Al-3.88 Fe-3.88	484.5 62.8		150.4	60.2	954 ASCR CARDINAL	

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Parafil Polyester cores in standard terminations
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Rope No.)	Rope Ø (mm)	Rope construction	Wire Ø (mm)	Rope Area (mm ²)	Rm minimum (N/mm ²)	Min Breaking Load (kN)	Max Test Load at PIAB (kN)	Notes	Material
506	7.0	multicore fibres	-	7.97	615	4.9	1.9	Parafil type A	
503	11.0	multicore fibres		31.8	615	19.6	7.8	Parafil type A	
505	20.0	multicore fibres	-	119	615	73.6	29.4	Parafil type A	
502	8.5	multicore fibres	-	15.3	1920	29.4	11.7	Parafil type F	
509	11.0	multicore fibres	-	30.5	1920	58.8	23.5	Parafil type F	
511	13.5	multicore fibres		53.5	1920	103	41.0	Parafil type F	
510	17.0	multicore fibres		76.3	1920	147	58.8	Parafil type F	

Copper + Steel (Cu + Fe)

Rope No.)	Rope Ø (mm)	Rope construction	Wire Ø (mm)	Rope Area (mm ²)	Rm minimum (N/mm ²)	Min Breaking Load (kN)	Max Test Load at PIAB (kN)	Notes	Material
601	15.0	1x19 7 Cu/Fe + 12 Cu	3.0	134 Fe34 Cu100		79	31.0		
602	21.0	1x19 7 Cu/Fe + 12 Cu	4.2	263 Fe66 Cu197		153	61.0		

Copper alt. Bronze

Rope No.)	Rope Ø (mm)	Rope construction	Wire Ø (mm)	Rope Area (mm ²)	Rm minimum (N/mm ²)	Min Breaking Load (kN)	Max Test Load at PIAB (kN)	Notes	Material
701	6.5	1x7	2.2	25.8	340	8.7	3.5	Cu	
702	7.5	1x7	2.3	29.0	380	11.0	4.4	Bronze	
703	7.6	1x7	2.5	35.3	360	12.4	4.5	Cu	

Rope No.)	Rope Ø (mm)	Rope construction	Wire Ø (mm)	Rope Area (mm ²)	Rm minimum (N/mm ²)	Min Breaking Load (kN)	Max Test Load at PIAB (kN)	Notes	Material
704	9.5	1x7	3.0	49.5	360	17.3	6.9	Cu	
705	12.0	1x7	3.8	80.0	300	24.0	9.5	Cu	
706	12.8	1x7	4.0	87.0	340	29.0	11.6	Cu	
707	14.0	1x7	4.2	96.0	360	33.0	13.2	Cu	
710	9.5	1x19	1.9	54	430	23	9.0	Bronze	
711	10.6	1x19	2.1	65.8	360	23.0	9.2		
712	12.8	1x19	2.6	97	360	34	13		
713	14.0	1x19	2.9	120	320	38	15		
714	16.0	1x19	3.3	155	320	48	18		
715	10.8	1x37	1.52	67.1	360	23.5	9.4	8.0 *	
727	14.5	1x37	2.2	125.0	320	40	16.0		
716	15.8	1x37	2.24	145.0	360	50.8	20.3	11.0* Fozfor-bronze	
717	16.0	1x37	2.3	155	360	53	21		
718	19.5	1x37	2.7	210	360	72	28		
728	21.0	1x37	3.2	263	320	84	33		
729	11.5	Solid copper	-	98	320	31	12		
719	12.0	Solid copper	-	107	340	35	14		
720	12.8	Solid copper	-	122	360	42	17		
721	10.0	Rod with grooves		75	360	27	10.8	10x10 BA7090-5	
722	12.0	Rod with grooves		106	360	38	13	12x9.75 BA7090-1	
723	12.0	Rod with grooves		126	360	42	17		
724	13.0	Rod with grooves		118	360	40	16	13x10.5 BA7090-2	
725	12.4	Rod with grooves		110	320	35	14	BA7090-3	
726	15.1	Rod with grooves		162	270	43	17	BA7090-4	
730	12.0	Rod with grooves		105	270	28	11	BA7090-6	
731	7.5	1x7						Cu	
732	9.0	1x7						Cu	
733	9.0	1x19						Cu	
734	10.6	Solid copper		80				Cu	
735	12.0	Solid copper		100				Cu	
736	13.2	Solid copper		120				Cu	
737	9,2	1x19	2.1				20		

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Different materials	
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Rope No.)	Rope Ø (mm)	Rope construction	Wire Ø (mm)	Rope Area (mm ²)	Rm minimum (N/mm ²)	Min Breaking Load (kN)	Max Test Load at PIAB (kN)	Notes	Material
901	8.4	1x12 Nirosta	2.1	41.6	1000	40.0	16.0	Nirosta 40 Rm 1050 kN/mm ²	
902	10.5	1x19 Nirosta	2.1	65.8	1000	65.0	26.0	Nirosta 70 Rm 1050 kN/mm ²	
903	9.2	12 CuAg 7 Nirosta 6 Cu	1.84 1.84 0.60	52.2 (31.9+18.6 +1.7)		30.0	12.0	NiCuAg 50 Cu-leg.	
904	10.8	1x19 Cu-leg.	2.15	68.9	450	31.0	12.4	Cu-leg70	
905	7.5	1x7 Bz II 35	2.5	34.4	560	19	7,6	Bz II 35 Bronze	
906	9,5	135x0,6 mm	0,6	38,17	1600	47,94	19,176	Nirosta TLB E 524	