

K. LACEY WIRES AND CABLES

TC12 CABLE

Traction Power / Military Vehicle Wiring / Fighting Vehicle

CONSTRUCTION

Flexible Tinned Copper Wire Conductor
LSZH Insulation. Standard Colour Black

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SPECIFICATION

TC12 Endorsed by QinetiQ as a suitable replacement for Unipren BS2E21

SCOPE

LSZH (Low Smoke Zero Halogen)

Generates almost no smoke and fume when involved in a fire situation.

Small size, low weight and high flexibility make it an ideal choice for areas where space is limited and weight is critical. Its superior fluid resistance, operating temperature and voltage range allow TC12 to be used in any environment.

Operating Temperature from -30°C to +105°C Continuous (20,000 hours @ 120°C)

Voltage rating; 0.6/1.0 kV 600/1000V. Test Voltage 6kV AC

Good resistance to fuels, diesel, engine, transformer and hydraulic oils.

Fire Performance: BS6853 Cat. 1a, 1b & 2. NF F 16 101 F0

Flexibility: <500,000 cycles to IEC227

Note: 1.8 / 3.3 kV version also available to special order

Conductor			Finished Cable		
Area mm ²	Strand mm	Diameter mm	Max. DC Conductor Resistance @ 20°C Ω/Km	O/Dia. Nom. mm	Nom. Weight. Kg / km
0.50	16/0.20	0.93	40.10	02.50	11
0.75	24/0.20	1.14	26.70	02.70	14
1.00	32/0.20	1.32	20.00	03.00	18
1.50	30/0.25	1.60	13.70	03.30	22
2.50	50/0.25	2.00	8.21	03.80	33
4.00	56/0.30	2.60	5.09	04.30	49
6.00	84/0.30	3.50	3.39	05.10	75
10.00	80/0.40	4.40	1.95	06.50	124
16.00	126/0.40	5.50	1.24	07.70	183
25.00	196/0.40	7.00	0.795	09.60	282
35.00	276/0.40	8.50	0.565	11.10	389
50.00	396/0.40	10.00	0.393	12.90	551
70.00	360/0.50	11.70	0.277	15.00	747
95.00	475/0.50	13.50	0.210	16.80	975
120.00	608/0.50	15.40	0.164	18.70	1229
150.00	756/0.50	Tba	0.132	21.10	1538
185.00	925/0.50	Tba	0.108	22.90	1859
240.00	1221/0.50	Tba	0.0817	26.20	2444
300.00	1525/0.25	Tba	0.0654	29.00	3031
400.00	2013.50	Tba	0.0495	34.50	3987

Minimum Bending Radius:

Flexing: D ≤ 10mm 3 x D
D > 10mm 5 x D

Static: D ≤ 10mm 3 x D
D > 10mm 4 x D

CONTACT US NOW FOR A QUOTATION

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Fax. +44 (0) 1903 255411

Email. sales@klaceyables.co.uk

INFORMATION GIVEN IS BASED ON GENERAL EXPERIENCE ONLY AND IS GIVEN IN GOOD FAITH. NO WARRANTY IS GIVEN WITH RESPECT TO THE INFORMATION AND USERS MUST DETERMINE THE SUITABILITY OF THE PRODUCT PRIOR TO ANY PARTICULAR USE.

AS9120 Rev A and ISO9001:2008 APPROVED BSI. RS000146 BAE APPROVED

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CURRENT RATING TABLES

All current ratings based upon 50Hz at an ambient temperature of 30°C and a MAXIMUM conductor operating temperature of 105°C i.e. temperature rise of 75°C

		TC12 CABLE 0.6/1.0kV								
		Cables in Free Air					Cables in Conduit			
Cond. C.S.A mm ²	strand	1 Cable AMP	2 Cables Touching AMP	3 Cables Touching AMP	4 Cables Touching AMP		1 Cable AMP	2 Cables Touching AMP	3 Cables Touching AMP	4 Cables Touching AMP
1.0	32/0.2	26	23	18	17.5		21	18.5	14.5	14
1.5	30/0.25	33	29	24	23		26	23	19	18
2.5	50/0.25	45	39	32	31		35	31	26	24
4	56/0.30	60	52	43	42		47	41	34	33
6	84/0.30	80	69	57	55		63	55	46	44
10	80/0.40	112	98	83	78		89	78	66	62
16	126/0.40	150	130	111	104		118	104	89	83
25	196/0.40	201	174	152	139		158	139	121	111
35	276/0.40	252	219	193	175		199	175	151	140
50	396/0.40	319	276	246	221		251	221	192	177
70	360/0.50	399	345	309	276		306	269	237	215
95	475/0.50	480	415	375	332		365	321	285	257
120	608/0.50	567	489	444	391		428	377	334	302
150	756/0.50	656	566	518	453		477	420	369	336
185	925/0.50	750	645	592	516		540	475	413	380
240	1221/0.50	906	777	717	622		644	567	493	454
300	1525/0.50	1051	897	831	718		735	647	561	518
400	2013/0.50	1278	1080	1003	864		916	806	690	645

Note : This cable has been endorsed by QinetiQ as suitable for use as a replacement for Unipren cable to BS2E21 (now obsolete). It combines the advantages of excellent flexibility and fluid resistance with a zero halogen composition.

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