

CABLES FOR A MOVING WORLD

The background of the entire page is a blue-tinted image showing the silhouettes of several workers wearing hard hats and safety gear. They are standing in a dark, smoky or steamy environment, possibly a tunnel or a construction site. The smoke is thick and billowing, creating a sense of a hazardous or active work environment.

**TRATOS
FIRESAFE TW100[®]**



TRATOS FIRESAFE TW100®

ZERO HALOGEN, LOW SMOKE CABLES having enhanced circuit integrity when exposed to fire

TRATOS FIRESAFE TW100® - 600/1000V

FEATURES AND PERFORMANCES



CONSTRUCTION

- **Conductor:** Stranded plain annealed copper wire conductor
- **Insulation:** Mica-glass fire resistant tape covered by an extruded layer of cross-linked Zero Halogen, Low Smoke (OHLS®) insulating compound

STANDARDS

- BS 6387 categories C, W & Z (when applied to a single cable)
- IEC 60331 Exceeds IEC 60331 - 3 hours at 750°C - when the test temperature was increased to 950°C, equivalent to BS Category C. (This test was also satisfactorily applied to Sifer cable in an earthed metal conduit, as per LPCB guidance notes)
- 6387
- IEC 60332-1, BS EN 50265, IEC 60332-3, BS EN 50266 (Flame propagation)
- IEC 60754-1, BS EN 50267-2-1 (Acid gas emission)
- IEC 61034, BS EN 50268 (Smoke emission)



Characteristics:

Working temperature	-40°C to +90°C (The cable should not be flexed when either the ambient or cable temperature is below 0°C)
Min. bending radius	8 x overall diameter of cable
Voltage rating (U _o /U)	600/1000V

A full range of insulation colours is available including green/yellow.
Sheathed versions also available. Details available upon request.

TRATOS FIRESAFE TW100 - 600/1000V

Cross Section	Insulation Thickness	Conductor DC Resistance at 20 °C Max	Maximum Temperature of the Conductor During Operation	Nominal Diameter	Nominal Cable Weight
mm ²	mm	Ω/Km	°C	mm	Kg/km
1,5	1,0	12,10	90	3,9	32
2,5	1,0	7,41	90	4,6	43
4	1,0	4,61	90	5,1	55
6	1,0	3,08	90	5,6	85
10	1,0	1,83	90	6,8	146
16	1,0	1,15	90	7,8	198
25	1,2	0,727	90	9,2	320
35	1,2	0,524	90	10,2	410
50	1,4	0,387	90	12,0	549
70	1,4	0,268	90	14,2	770
95	1,6	0,193	90	15,6	1140
120	1,6	0,153	90	17,5	1425
150	1,8	0,124	90	19,4	1720
185	2,0	0,091	90	22,5	2155
240	2,2	0,074	90	24,2	2900
300	2,4	0,061	90	28,0	3540
400	2,6	0,047	90	31,0	4410
500	2,8	0,036	90	34,8	5660
630	2,8	0,028	90	37,8	7140



Tratos Cavi Spa - Holding Company

via Stadio, 2
Pieve Santo Stefano (AR)
52036 - Italy
tel: +39 0575 7941
fax: +39 0575 794246
e-mail: enquiry@tratos.eu

Tratos Ltd - Group Commercial Department

10 Eagle Court - Britton Street
Farringdon - London
EC1M 5QD - United Kingdom
tel. +44 (0)845 413 9990
fax +44 (0)203 553 4815
e-mail: uk@tratos.eu