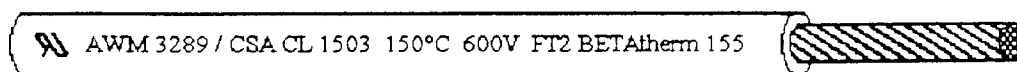




# ERBA ISOLANTI srl

Via Liguria n. 34/31 - 20068 Peschiera Borromeo (MI)  
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DATA: 19 Gen 95	<b>BETatherm® 155</b> Heat resistant, electron beam cross-linked Insulated wire class "F"	Codice	TRX
Agg.: 24 Set 96		Scheda tecnica	15 4 1 GB
Pag: 1 / 2		Gruppo	F



electron beam cross-linked

Tinned Copper

## 1. Field of application

Insulated wire thermal class F (up to 155 °C) for motors, transformers, relays, coils, magnets, etc. Aggregate connections in the automobile industry. Wiring of control and operator's cabinets. Supply lines of high intensity lights for industry, sports facilities and roads. Connecting line for heating equipments.

## 2. Construction

Tinned stranded copper wire conductors (IEC 228, cl. 5); insulation BETatherm 155 - electron beam cross-linked polyolefine-copolymer.

## 3. Technical details

### Rated voltage

$U_0/U =$  up to 0,75 mm<sup>2</sup>      450/750 V  
 $U_0/U =$  from 1 mm<sup>2</sup>      600/1000 V

### Test voltage

3500 V, 50 Hz, 15 min.

### Thermal properties

During soldering the electron beam cross-linked infusible insulation does not melt and makes high burn in temperatures possible pending processing. BETatherm is insensitive varnish to all conventional insulating varnish and has a very good resistance to pressure at high temperatures.

lowest ambient temp.      - 55°C  
long-time operation temp.      + 155°C  
short-circuit temperature      + 280°C

### Bending radius

4 x Overall diameter

### Behaviour in case of fire

Smoke production      average  
Fire propagation      self extinguishing  
Corrosive gases      minor

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## 4. Executions and weights

### Standard execution

Dimension mm <sup>2</sup>	Conductor design mm	Conductor diameter mm	Copper weight kg/km	Overall diameter mm	Weight kg/100 m
0,25	14/0,15	0,66	2,4	1,55	4
0,33	19/0,15	0,75	3,2	1,65	5
0,50	16/0,20	0,95	4,8	1,9	7
0,75	24/0,20	1,15	7,2	2,20	11
1,00	32/0,20	1,35	9,6	2,50	14
1,50	30/0,25	1,60	14,4	3,10	19
2,50	50/0,25	2,10	24,0	3,80	30
4,00	56/0,30	2,65	38,4	4,35	46
6,00	84/0,30	3,60	57,6	5,40	71
10,00	80/0,40	4,30	96,0	6,50	120
16,00	126/0,40	6,00	153,6	8,40	180
25,00	196/0,40	7,55	240,0	10,20	270
35,00	280/0,40	8,80	336,0	11,60	370
50,00	399/0,40	10,70	480,0	13,70	530
70,00	570/0,40	12,60	672,0	15,80	730
95,00	475/0,50	14,80	912,0	18,20	960
120,00	608/0,50	16,60	1152,0	20,20	1230
150,00	760/0,50	18,30	1440,0	22,10	1520
185,00	950/0,50	20,80	1776,0	25,00	1850
240,00	1216/0,50	23,30	2304,0	27,90	2430

### Execution according to UL 3289 und CSA CL 1503

Dimension AWG mm <sup>2</sup>	Conductor design N/mm	Conductor diameter mm	Copper weight kg/km	Overall diameter mm	Weight kg/100 m
24 (0,24)	19/0,127	0,68	2,3	2,28	0,6
22 (0,38)	19/0,160	0,84	3,7	2,44	0,8
20 (0,61)	19/0,203	1,06	5,9	2,66	1,1
18 (0,96)	19/0,254	1,32	9,2	2,92	1,2
16 (1,34)	19/0,300	1,55	12,9	3,15	2,0
14 (2,38)	19/0,400	2,05	22,9	3,65	2,8
12 (3,31)	65/0,254	2,51	31,8	4,10	4,5
10 (5,26)	105/0,254	3,30	50,5	4,90	6,5
8 (8,50)	168/0,254	4,60	81,6	7,00	12,3
6 (13,40)	266/0,254	5,60	128,6	8,80	19
4 (21,20)	420/0,254	7,00	203,5	10,20	28
2 (33,60)	665/0,254	8,70	322,6	11,90	37
1 (42,30)	836/0,254	9,80	406,1	14,20	49
0 (53,90)	1064/0,254	11,00	517,4	15,40	57
00 (67,00)	1320/0,254	13,00	650,0	17,00	70