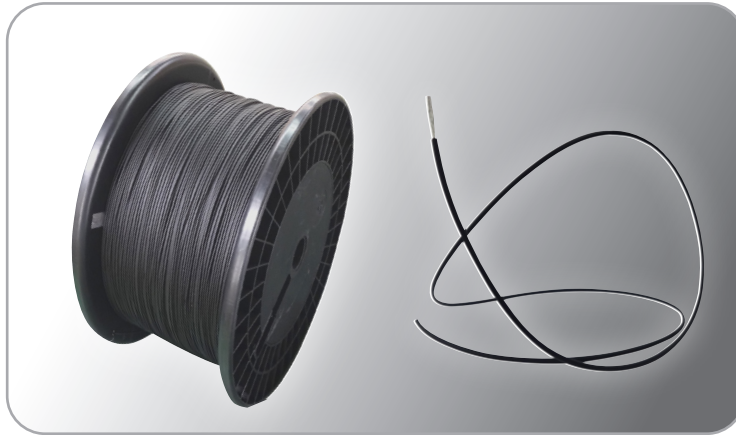


IRRAX[®] EN Wire



Sumitomo Electric Industries, Ltd. has developed the Halogen free wire which has flame retardant, low toxicity and smoke insulation system based on EN50264-3-1 standard applied to fixed internal/external wiring for rolling stocks.

Features

- EN 50264-3-1:2008 standard
- Halogen free, Flame resistance, Low smoke emission
- Heat/Cold, Oil resistance

Specification

<Application>

- Single core cable applied to fixed Internal/external wiring for rolling stocks

<Rating>

- Voltage U₀/U 600/1,000 VAC(r.m.s.)
V₀ 900 VDC
- Temperature -40 to +90°C
- Insulation system EI 109

<Reaction to fire>

- Flame propagation (Single)
- Flame propagation (Bunched)
- Toxicity ITC ≤ 3
- Smoke emission ≥ 70%
- Halogen pH ≥ 4.3
- Conductivity ≤ 10 μS/mm

IRRAX[®] EN Size Variations

Nominal cross-sectional area mm ²	Mean thickness of insulation mm	Overall diameter		Max. conductor resistance Ω/km	Min. insulation resistance at 20°C MΩ·km
		min. mm	max. mm		
1.0	0.6	2.4	2.8	20.0	11.4
1.5	0.7	2.8	3.3	13.7	11.0
2.5	0.7	3.2	3.8	8.21	9.1
4	0.7	3.8	4.4	5.09	7.5
6	0.7	4.2	5.0	3.39	6.5
10	0.7	5.1	5.9	1.95	5.2
16	0.7	6.1	7.2	1.24	4.2
25	0.9	7.8	9.1	0.795	4.1
35	0.9	9.0	10.6	0.565	3.5
50	1.0	10.6	12.4	0.393	3.3
70	1.1	12.5	14.6	0.393	3.3
95	1.1	13.9	16.3	0.210	2.7

EN60332-1-2
EN50305 9.1.2
EN50305 9.2
EN61034-2
EN50267-2-2

Contact Information

SEI Trading India Private Limited

Tel: +91-124-4577470

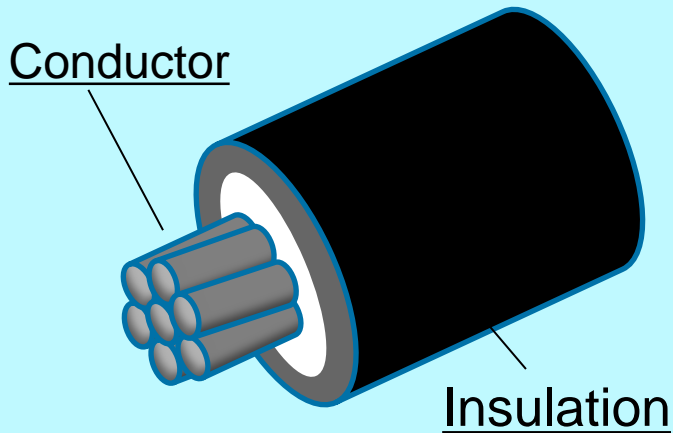
Web Site: www.seti.co.in

E-mail: seti-web@list.sei.jp

IRRAX™EN

Tech. Info. 16-01
EN 50264-3-1 600V

【Cable construction】



Conductor: Tinned annealed copper
Insulation : Crosslinked polyolefin
Inner : Natural
Outer : Black

【Features】

- EN 50264-3-1:2008 standard
- Halogen free, Flame resistance,
Low smoke emission
- Heat/Cold, Oil resistance

【Application】

- Single core cable applied to fixed internal/external wiring for rolling stocks

【Rating】

- Voltage U_0/U 600/1,000 VAC(r.m.s.)
 V_0 900 VDC
- Temperature -40 to +90°C
- Insulation system EI 109

【Reaction to fire】

- Flame propagation (Single) EN60332-1-2
- Flame propagation (Bunched) EN50305 9.1.2
- Toxicity $ITC \leq 3$ EN50305 9.2
- Smoke emission $\geq 70\%$ EN61034-2
- Halogen $pH \geq 4.3$ EN50267-2-2
- Conductivity $\leq 10\mu\text{S}/\text{mm}$

IRRAX™EN Size Variations

Nominal cross-sectional area	Mean thickness of insulation	Overall diameter		Max. conductor resistance	Min. insulation resistance at 20°C
		min.	max.		
mm ²	mm	mm	mm	Ω /km	M Ω .km
1.0	0.6	2.4	2.8	20.0	11.4
1.5	0.7	2.8	3.3	13.7	11.0
2.5	0.7	3.2	3.8	8.21	9.1
4	0.7	3.8	4.4	5.09	7.5
6	0.7	4.2	5.0	3.39	6.5
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16	0.7	6.1	7.2	1.24	4.2
25	0.9	7.8	9.1	0.795	4.1
35	0.9	9.0	10.6	0.565	3.5
50	1.0	10.6	12.4	0.393	3.3
70	1.1	12.5	14.6	0.277	3.0
95	1.1	13.9	16.3	0.210	2.7