

RADOX® TENUIS-TW

single core

Conductor	according to EN 50306-2	Voltage rating	600/1000V AC
Number of conductors	1		900/1500V DC
Cross section	0.5 - 4.0 mm ²	Temperature range	-40 °C to +120 °C



Composition of core

1. Conductor	stranded tin plated copper
2. Insulation	RADOXTI 303 colours: white and greenyellow

Characteristics and specialities

- Resistance to oil, ozone, weathering
- Broad product range

Application

- Typical applications include carriage wiring, terminal boxes, power supply to various systems and ground connections inside railway rolling stock at fixed or sporadic moving installations.
- Guidelines for selection and the installation are described in the standards EN 50355 and EN 50343.

Standards

Standard	Fire protection on railway vehicles	
prEN 45545-2		
DIN 5510-2	protection level	1, 2, 3, 4
NFF 16-101	class, category	C / F0, int. A1, A2, B / ext. A1, A2, B
UNI CEI 11170-3		

For further technical details please refer to our data sheet.

Cross section mm ²	Conductor		Core	Conductor resistance	Capacitance	Fire load	Weight		Item no.
	construction n x mm	d _{nom.} mm	d mm	R ₂₀ max. Ω/km	C _{H₂O} pF/m	nom. kJ/m	copper kg/100 m	cable kg/100 m	standard colour white
0.5	19 x 0.18	0.90	1.43 ± 0.02	40.1	360	33	0.45	0.58	12564379
0.75	19 x 0.23	1.10	1.63 ± 0.02	26.7	445	37	0.69	0.84	12566838
1	19 x 0.26	1.25	1.78 ± 0.02	20.0	478	43	0.88	1.00	12561500
1.5	19 x 0.31	1.50	2.17 ± 0.05	13.7	460	61	1.30	1.60	12564381
2.5	19 x 0.40	1.95	2.75 ± 0.05	8.21	513	95	2.20	2.60	12564382
4	56 x 0.30	2.45	3.35 ± 0.05	5.09	565	133	3.40	4.00	12581455

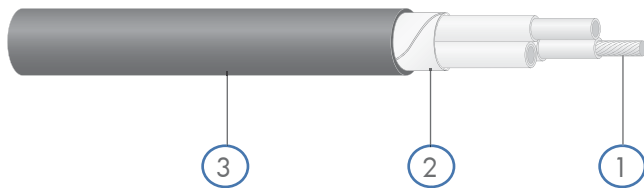
Capacity in water, typical value.

TW = Thin Wall

RADOX® TENUIS-TW/S

multi core

Conductor	according to EN 50306-2	Voltage rating	600/1000V AC
Number of conductors	2- ...		900/1500V DC
Cross section	0.5 - 4.0 mm ²	Temperature range	-40 °C to +120 °C



Composition of cable

- | | |
|--------------|--|
| 1. Cores | TENUIS-TW
colours: white, numbered and green/yellow
further colours on request |
| 2. Separator | tape |
| 3. Sheath | RADOX GWK S, colour: black |

Characteristics and specialities

- Resistance to oil, ozone, weathering
- Broad product range
- Space saving constructions

Application

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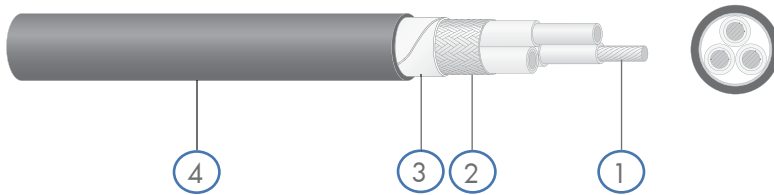
Construction	Conductor	Core	Cable	Conductor resistance	Fire load	Weight		Item no.
mm ²	d _{nom.} mm	d _{nom.} mm	d mm	R ₂₀ max. Ω/km	nom. kJ/m	copper kg/100 m	cable kg/100 m	
2x0.5	0.90	1.43	4.4±0.2	40.1	290	0.90	3.1	12568036
3x0.5	0.90	1.43	4.6±0.2	40.1	320	1.35	3.6	12568037
4x0.5	0.90	1.43	5.0±0.2	40.1	362	1.80	4.3	12568038
5x0.5	0.90	1.43	5.5±0.2	40.1	427	2.25	5.3	12566304
6x0.5	0.90	1.43	6.0±0.2	40.1	544	2.70	6.2	12568039
2x2x0.5	0.90	1.43	6.5±0.3	40.1	595	1.80	5.8	12568040
4x2x0.5	0.90	1.43	8.7±0.3	40.1	900	3.60	9.9	12568041
2x0.75	1.10	1.63	4.75±0.3	26.7	300	1.40	3.5	12568047
3x0.75	1.10	1.63	5.15±0.3	26.7	372	2.10	4.7	12568048
4x0.75	1.10	1.63	5.6±0.3	26.7	430	2.80	5.7	12568049
6x0.75	1.10	1.63	6.75±0.3	26.7	659	4.20	8.3	12568050
2x2x0.75	1.10	1.63	7.75±0.3	26.7	833	2.80	8.1	12568051
2x1	1.25	1.78	5.1±0.3	20.0	377	1.65	4.5	12568052
3x1	1.25	1.78	5.4±0.3	20.0	410	2.45	5.4	12568053
4x1	1.25	1.78	5.8±0.3	20.0	460	3.30	6.4	12568054
6x1	1.25	1.78	7.3±0.3	20.0	887	5.00	9.8	12568055
10x1	1.25	1.78	8.7±0.3	20.0	950	8.50	14.3	12581348
25x1	1.25	1.78	12.8±0.4	20.0	1890	21.20	32.4	12581349
2x1.5	1.50	2.17	6.0±0.3	13.7	511	2.60	6.3	12568098
3x1.5	1.50	2.17	6.3±0.3	13.7	540	3.90	7.6	12568099
3 G 1.5	1.50	2.17	6.3±0.3	13.7	540	3.90	7.6	12582026
4x1.5	1.50	2.17	6.9±0.3	13.7	631	5.10	9.4	12568100
5x1.5	1.50	2.17	7.8±0.3	13.7	830	6.60	11.6	12581350
5 G 1.5	1.50	2.17	7.8±0.3	13.7	830	6.60	11.6	12582027
6x1.5	1.50	2.17	8.45±0.3	13.7	1020	7.90	14.1	12582028
7 G 1.5	1.50	2.17	9.1±0.3	13.7	1220	9.20	16.5	12582029
8x1.5	1.50	2.17	10.3±0.4	13.7	1590	10.50	20.1	12582030
10x1.5	1.50	2.17	10.6±0.4	13.7	1370	13.10	21.6	12582031
18x1.5	1.50	2.17	13.4±0.4	13.7	2360	23.70	37.4	12582032
25 G 1.5	1.50	2.17	15.5±0.5	13.7	3010	33.10	49.4	12582033
2x2.5	1.95	2.75	7.3±0.3	8.21	745	4.30	9.8	12568101
3x2.5	1.95	2.75	7.8±0.3	8.21	840	6.60	12.2	12582034
3 G 2.5	1.95	2.75	7.8±0.3	8.21	840	6.60	12.2	12582035
4x2.5	1.95	2.75	8.7±0.3	8.21	1000	8.60	15.2	12566306
5x2.5	1.95	2.75	9.4±0.3	8.21	1200	10.90	18.1	12581346
6x2.5	1.95	2.75	10.6±0.4	8.21	1590	13.10	22.3	12581347

S = RADOX GKW S sheath
 G = (earth) = greenyellow

RADOX® TENUIS-TW/S EMC

multi core screened

Conductor	according to EN 50306-2	Voltage rating	600/1000V AC
Number of conductors	2 - ...		900/1500V DC
Cross section	0.5 - 4.0 mm ²	Temperature range	-40 °C to +120 °C



Composition of cable

1. Cores	TENUIS-TW colour: white, numbered and greenyellow further colours on request
2. EMC screen	tin plated copper braid
3. Separator	tape
4. Sheath	RADOX GWK S, colour: black

Characteristics and specialities

- Resistance to oil, ozone, weathering
- High screening effectiveness
- Broad product range
- Space saving constructions

Application

- Typical applications include carriage wiring, terminal boxes, power supply to various systems and ground connections inside railway rolling stock at fixed or sporadic moving installations.
- Guidelines for selection and the installation are described in the standards EN 50355 and EN 50343.

Standards

Standard	Fire protection on railway vehicles	
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UNI CEI 11170-3		

For further technical details please refer to our data sheet.

RADOX® TENUIS-TW/S EMC

multi core screened

Construction	Conductor	Core	Cable	Conductor resistance	Fire load	Weight		Item no.
mm ²	d _{nom.} mm	d _{nom.} mm	d mm	R ₂₀ max. Ω/km	nom. kJ/m	copper kg/100 m	cable kg/100 m	
2 x 0.5	0.90	1.43	4.8 ± 0.3	40.1	323	1.8	4.2	12568117
6 x 0.5	0.90	1.43	6.5 ± 0.3	40.1	526	4.8	8.2	12568120
15 x 0.5	0.90	1.43	9.0 ± 0.3	40.1	1226	9.6	16.7	12582036
3 x 2 x 0.5	0.90	1.43	8.1 ± 0.3	40.1	765	4.8	9.8	12581451
12 x 2 x 0.5	0.90	1.43	13.0 ± 0.3	40.1	1594	20.6	27.6	12581358
2 x 0.75	1.10	1.63	5.0 ± 0.3	26.7	345	2.6	4.8	12568514
4 x 0.75	1.10	1.63	6.0 ± 0.3	26.7	441	4.8	7.2	12568516
6 x 0.75	1.10	1.63	7.2 ± 0.3	26.7	675	5.9	10.3	12568517
10 x 0.75	1.10	1.63	8.7 ± 0.3	26.7	896	9.6	15.2	12582046
18 x 0.75	1.10	1.63	11.0 ± 0.4	26.7	1397	16.2	24.4	12582048
3 x 2 x 0.75	1.10	1.63	9.0 ± 0.3	26.7	978	6.7	12.7	12581579
2 x 1	1.25	1.78	5.6 ± 0.3	20.0	430	2.7	6.0	12568162
4 x 1	1.25	1.78	6.5 ± 0.3	20.0	527	4.9	8.8	12568164
8 x 1	1.25	1.78	8.9 ± 0.3	20.0	1120	10.8	17.1	12581449
25 x 1	1.25	1.78	13.8 ± 0.4	20.0	2110	27.0	39.2	12582051
2 x 2 x 1	1.25	1.78	8.3 ± 0.3	20.0	877	5.5	11.7	12581357
3 x 1.5	1.50	2.17	6.8 ± 0.3	13.7	580	5.5	9.5	12568173
6 x 1.5	1.50	2.17	9.0 ± 0.3	13.7	1020	12.0	16.8	12581465
18 x 1.5	1.50	2.17	14.4 ± 0.4	13.7	3490	30.5	45.2	12582056
2 x 2.5	1.95	2.75	7.8 ± 0.3	8.21	806	6.3	12.2	12568175
6 x 2.5	1.95	2.75	11.4 ± 0.4	8.21	1650	16.5	26.8	12582059

S = RADOX GWK S sheath

EMC = Electromagnetic Compatibility