



Traction cable

RADOX TENUIS-TW 600V MM S

Product description:

RADOX TENUIS-TW 600V MM S multicore cables, screened (overall screen)
 Nominal voltage: 600 / 1000 V AC
 Hazard level: M (extra low temperature, extra oil and extra fuel resistant)

General features:

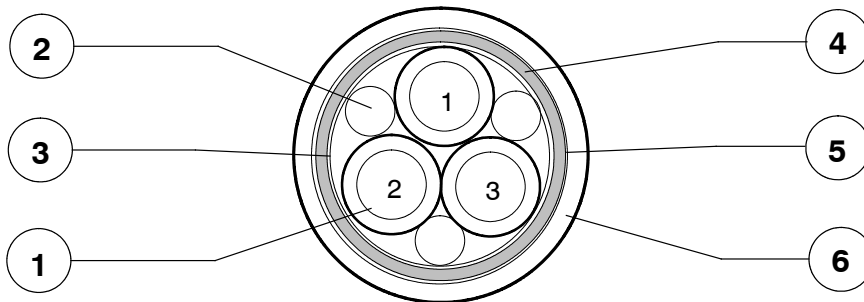
Halogen free, electrom- beam cross- linked cables with improved behaviour in case of fire, easy to strip, soldering iron resistant and flexible.

Application:

The cables are intended for permanent installation in rail vehicles or for applications in which a limited alternating bending stress occur during service.

Guidelines for selection and installation are described in the standards EN 50355 and EN 50343.

General composition of cable:



- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Twisted cores
RADOX TENUIS-TW 600V 2. Filler (optional) 3. Separator (optional) 4. EMC- screen 5. Separator 6. Sheath | <p>Conductor: stranded tin plated copper, acc. to EN 50306- 2
 Insulation: RADOX EI 303
 Colours: white, black numbered
 other colours on request</p> <p>RADOX 125 REC
 Tape
 Tin plated copper braid
 Tape
 RADOX EM 104, acc. to EN 50264- 1
 Colour : black, yellow marked</p> |
|---|---|



Marking:

[a] HUBER+SUHNER RADOX TENUIS- TW 600V [b] MM S [c]- [d] [e] [f]

<p>[a] Meter marking (in m) [b] Construction [c] Part number [d] Batch number [e] Production week and year [f] Production place (only if China)</p>	<p>example: = 1234 = m 3X1.5 12345678 1234567 03- 2017 CN</p>
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The product fulfils the test and specification requirements described in this document for the stated areas of application and operating conditions. HUBER+SUHNER AG does not expressly or implicitly guarantee performance under additional or changed conditions. Deviations are to be agreed upon in writing.

HUBER+SUHNER AG
Low Frequency Division
 CH- 8330 Pfäffikon
 +41 (0)44 952 22 11
 +41 (0)44 952 26 40
www.hubersuhner.com



Traction cable

RADOX TENUIS-TW 600V MM S

Technical data:

Voltage rating cond.- earth	..... U_0	..... 600	..... V AC
Voltage rating cond.- cond.	..... U	..... 1000	..... V AC
maximum permissible Voltage rating AC cond.- earth	.....	..... 720	..... V AC
maximum permissible Voltage rating AC cond.- cond.	..... U_m	..... 1200	..... V AC
maximum permissible Voltage rating DC cond.- earth	..... V_0	..... 900	..... V DC
maximum permissible Voltage rating DC cond.- cond.	.....	..... 1500	..... V DC
Test voltage	.....	..... 3500	..... V AC
Temperature range	.....	..... -50 ... + 120	..... °C

Min. bending radius

fixed installation	..... cable diameter \leq 12 mm	..... 3 x D
	..... cable diameter $>$ 12 mm	..... 4 x D
sporadic movement	..... cable diameter \leq 12 mm	..... 4 x D
	..... cable diameter $>$ 12 mm	..... 5 x D

NB:

The upper temperature limit is determined by long term ageing according to EN 50305 Par. 7 and extrapolation to 20,000 hours.

The lower temperature limit is determined by bending and elongation tests according to EN60811- 1- 4 Par. 8, respectively low temperature behaviour tests according to GOST 20.57.406- 81, method 204- 1 and GOST 17491- 80.

The specified bending radii require a careful and proper handling using proven fastening technologies.



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The cables are in conformity with:

Fire protection on railway vehicles, category	la, lb, II	BS 6853, GM/RT 2130
Vertical flame spread	50 < L ≤ 540 mm	EN 60332- 1-2
Vertical flame spread, bunched	L ≤ 2.5 m	EN 50266, BS 6853 An. D.8.7
Smoke density	A ₀ ≤ BS 6853	BS 6853 An. D.8.7
Toxicity	R ≤ 1.0	BS 6853 An. B.1
Fire protection on railway vehicles, hazard level	HL1 - HL3	EN 45545
Vertical flame spread	50 < L ≤ 540 mm	EN 60332- 1-2
Vertical flame spread, bunched, D ≤ 6 mm	L ≤ 1.5 m	EN 50305, 9.1.2
Vertical flame spread, bunched, 6 < D < 12 mm	L ≤ 2.5 m	EN 50305, 9.1.1 (EN 60332-3- 25)
Vertical flame spread, bunched, D ≥ 12 mm	L ≤ 2.5 m	EN 60332-3-24
Smoke density	T ≥ 70 %	EN 61034-2
Toxicity	ITC ≤ 6	EN 50305, 9.2
Fire protection on railway vehicles, level of protection	1 - 4	DIN 5510
Vertical flame spread	50 < L ≤ 540 mm	EN 60332- 1-2
Vertical flame spread, bunched, D ≤ 6 mm	L ≤ 1.5 m	EN 50305, 9.1.2
Vertical flame spread, bunched, 6 < D < 12 mm	L ≤ 2.5 m	EN 60332-3-25
Vertical flame spread, bunched, D ≥ 12 mm	L ≤ 2.5 m	EN 60332-3-24
Smoke density	T ≥ 60 %	EN 61034-2
Corrosivity of combustion gases	pH ≥ 4.3, C ≤ 10 μS/mm	EN 50267-2-2
Amount of halogen acid gas	HCl + HBr ≤ 0.5 %	EN 50267-2-1
Content of fluorine	HF ≤ 0.1 %	EN 60684-2, 45.2
Toxicity, insulation	ITC ≤ 6	EN 50305, 9.2
Toxicity, filler and sheath	ITC ≤ 3	EN 50305, 9.2
Fire protection on railway vehicles, category	A1, A2, B	NF F16- 101
Fire protection on railway vehicles, class	C / F0	NF F16- 101
Vertical flame spread	50 < L ≤ 540 mm	NF C32- 070, 2.1
Vertical flame spread, bunched	L ≤ 300 mm	NF C32- 070, 2.2
Smoke index	I.F. ≤ 5	X10- 702-2, NF X70- 100- 1
Fire protection on railway vehicles	Fulfilled	NFPA 130
Vertical flame spread, bunched	L ≤ 1.5 m	UL 1685, 12 (FT4 exp.)
Smoke density	TSR ≤ 150 m ² , PSRR ≤ 0.40 m ² /s	UL 1685, 12 (FT4 exp.)
Fire protection on railway vehicles, hazard level	LR1 - LR4	UNI CEI 11170
Vertical flame spread	50 < L ≤ 540 mm	EN 60332- 1-2
Vertical flame spread, bunched, D ≤ 6 mm	L ≤ 1.5 m	EN 50305, 9.1.2
Vertical flame spread, bunched, 6 < D < 12 mm	L ≤ 2.5 m	EN 60332-3-25
Vertical flame spread, bunched, D ≥ 12 mm	L ≤ 2.5 m	EN 60332-3-24
Smoke density	T ≥ 70 %	EN 61034-2
Corrosivity of combustion gases	pH ≥ 4.3, C ≤ 10 μS/mm	EN 50267-2-2
Amount of halogen acid gas	HCl + HBr ≤ 0.5 %	EN 50267-2-1
Toxicity, insulation	ITC ≤ 6	EN 50305, 9.2
Toxicity, filler and sheath	ITC ≤ 3	EN 50305, 9.2
Requirement of hazard level Code M	(according to EN 50264- 1 or EN 50306- 1)	
Extra low temperature	- 40°C	
Extra oil resistance	IRM 902, 72h, 100°C	
Extra fuel resistance	IRM 903, 168h, 70°C	

Applicable Documents:

581998 current rating for multi core cables



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Construction 1) n x mm ²	Conductor Dia.nom. mm	Core 2) Dia. nom. mm	Cable Dia. mm	R ₂₀ 3) max. Ω/km	C 4) core/ core/ core/ screen pF/m		Fireload nom. kJ/m	Weight nom. Copper Cable kg / 100m		H + S Part No.
2x0.25	0.6	1.17	4.45 ± 0.3	88.5	110	180	279	1.1	3.2	85 032 996
3x0.25	0.6	1.17	4.25 ± 0.3	88.5	110	180	245	1.3	3.0	85 075 937
10x2x0.25	0.6	1.17	11.1 ± 0.4	88.5	70	120	1438	7.8	17.4	85 070 661
24x2x0.25	0.6	1.17	16.3 ± 0.5	88.5	70	120	3045	15.8	35.4	85 067 930

Construction 1) n x mm ²	Conductor Dia.nom. mm	Core 2) Dia. nom. mm	Cable Dia. mm	R ₂₀ 3) max. Ω/km	C 4) core/ core/ core/ screen pF/m		Fireload nom. kJ/m	Weight nom. Copper Cable kg / 100m		H + S Part No.
2x0.34	0.75	1.3	4.7 ± 0.3	54.7	120	200	304	1.4	3.7	85 070 508
3x0.34	0.75	1.3	4.9 ± 0.3	54.7	120	200	325	1.8	4.2	85 024 293
4x0.34	0.75	1.3	5.25 ± 0.3	54.7	110	180	368	2.2	4.9	85 070 510
24x0.34	0.75	1.3	10.5 ± 0.4	54.7	80	140	1423	11.4	20.5	85 073 629

Construction 1) n x mm ²	Conductor Dia.nom. mm	Core 2) Dia. nom. mm	Cable Dia. mm	R ₂₀ 3) max. Ω/km	C 4) core/ core/ core/ screen pF/m		Fireload nom. kJ/m	Weight nom. Copper Cable kg / 100m		H + S Part No.
2x0.5	0.9	1.42	4.8 ± 0.3	40.1	130	220	315	1.6	3.9	12 568 117
3x0.5	0.9	1.42	5.3 ± 0.3	40.1	130	220	380	2.1	4.9	12 568 118
4x0.5	0.9	1.42	5.4 ± 0.3	40.1	110	190	380	2.7	5.4	12 568 119
5x0.5	0.9	1.42	6.2 ± 0.3	40.1	100	170	527	3.7	7.2	12 581 351
6x0.5	0.9	1.42	6.5 ± 0.3	40.1	100	160	590	4.4	8.2	12 568 120
7x0.5	0.9	1.42	7.2 ± 0.3	40.1	90	160	751	5.0	9.7	12 583 138
8x0.5	0.9	1.42	7.5 ± 0.3	40.1	90	150	831	5.7	10.9	12 581 352
9x0.5	0.9	1.42	7.9 ± 0.3	40.1	90	150	813	6.2	11.4	12 581 450
10x0.5	0.9	1.42	7.9 ± 0.3	40.1	90	150	839	6.6	11.9	84 112 800
12x0.5	0.9	1.42	8.1 ± 0.3	40.1	90	150	882	7.6	13.0	12 581 353
15x0.5	0.9	1.42	9.0 ± 0.3	40.1	90	150	1114	9.3	16.0	12 582 036
15x0.5	0.9	1.42	13.0±0.2/- 0.3	40.1	90	150	2510	10.5	28.9	12 551 839 5)
16x0.5	0.9	1.42	9.1 ± 0.3	40.1	90	150	1123	9.8	16.4	12 583 727
20x0.5	0.9	1.42	10.6 ± 0.4	40.1	90	140	1544	12.9	22.2	84 123 311

5) RADOX TENUIS- TW 600V 15X0.5 MM S SPEC; double sheathed and with special marking:

HUBER+SUHNER RADOX TENUIS- TW 600V 15X0.5 MM S SPEC 12551839- [batch- no.][date of manufacture] / SECHERON 5.8604.220



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Construction ¹⁾ n x mm ²	Conductor Dia.nom. mm	Core ²⁾ Dia. nom. mm	Cable Dia. mm	R ₂₀ ³⁾ max. Ω/km	C ⁴⁾		Fireload nom. kJ/m	Weight nom.		H + S Part No.
					core/ core	core/ screen		Copper	Cable	
22x0.5	0.9	1.42	10.9 ± 0.4	40.1	90	140	1670	13.9	23.7	85 003 491
24x0.5	0.9	1.42	11.3 ± 0.4	40.1	90	140	1686	14.8	24.9	84 141 106
25x0.5	0.9	1.42	11.3 ± 0.4	40.1	90	140	1708	15.3	25.4	12 582 037
30x0.5	0.9	1.42	12.3 ± 0.4	40.1	90	140	1992	19.3	31.0	12 582 909
36x0.5	0.9	1.42	13.3 ± 0.4	40.1	90	140	2365	23.0	36.7	12 582 038
42x0.5	0.9	1.42	14.3 ± 0.4	40.1	90	140	2565	25.2	41.2	12 582 039
2x2x0.5	0.9	1.42	7.2 ± 0.3	40.1	110	190	625	3.6	8.0	12 568 121
3x2x0.5	0.9	1.42	8.1 ± 0.3	40.1	100	160	802	4.8	10.3	12 581 451
4x2x0.5	0.9	1.42	9.3 ± 0.3	40.1	90	150	1076	6.1	13.6	12 568 122
5x2x0.5	0.9	1.42	10.3 ± 0.4	40.1	90	150	1338	7.9	17.0	12 582 041
6x2x0.5	0.9	1.42	11.1 ± 0.4	40.1	90	150	1592	9.3	19.8	12 582 042
8x2x0.5	0.9	1.42	13.5 ± 0.4	40.1	90	150	2422	13.8	29.3	12 583 728
10x2x0.5	0.9	1.42	13.7 ± 0.4	40.1	90	140	1996	15.7	29.0	84 104 571
12x2x0.5	0.9	1.42	13.0 ± 0.3	40.1	90	140	1770	17.5	28.3	12 581 358

Construction ¹⁾ n x mm ²	Conductor Dia.nom. mm	Core ²⁾ Dia. nom. mm	Cable Dia. mm	R ₂₀ ³⁾ max. Ω/km	C ⁴⁾		Fireload nom. kJ/m	Weight nom.		H + S Part No.
					core/ core	core/ screen		Copper	Cable	
2x(2x0.5)	0.9	1.42	11.8 ± 0.4	40.1	-	-	1887	8.8	22.5	12 582 040
2x0.5 + 3x0.75	0.9 1.1	1.42 1.62	7.7 ± 0.3	40.1 26.7	-	-	750	4.9	10.0	85 065 402 ⁶⁾

⁶⁾ Colour of sheath: violet , 2x0.5 (numbered: 4...5) 3x0.75 (numbered: 1...3)



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Construction 1) n x mm ²	Conductor Dia.nom. mm	Core 2) Dia. nom. mm	Cable Dia. mm	R ₂₀ 3) max. Ω/km	C 4) core/ core/ core/ screen pF/m		Fireload nom. kJ/m	Weight nom. Copper Cable kg / 100m		H + S Part No.
2x0.75	11	1.62	5.0 ± 0.3	26.7	150	250	330	2.1	4.6	12 568 514
3x0.75	1.1	1.62	5.4 ± 0.3	26.7	150	250	370	3.0	5.6	12 568 515
3G0.75	1.1	1.62	5.4 ± 0.3	26.7	150	250	370	3.0	5.6	12 583 993
4x0.75	1.1	1.62	6.0 ± 0.3	26.7	120	210	474	4.2	7.4	12 568 516
4G0.75	1.1	1.62	6.0 ± 0.3	26.7	120	210	474	4.2	7.4	12 583 994
5x0.75	1.1	1.62	6.7 ± 0.3	26.7	110	190	611	5.2	9.2	85 063 744
6x0.75	1.1	1.62	7.2 ± 0.3	26.7	110	180	721	6.0	10.6	12 568 517
7x0.75	1.1	1.62	8.0 ± 0.3	26.7	100	170	909	7.0	12.7	12 581 578
8x0.75	1.1	1.62	8.4 ± 0.3	26.7	100	170	1024	7.9	14.2	12 582 045
10x0.75	1.1	1.62	8.7 ± 0.3	26.7	100	170	986	9.3	15.5	12 582 046
12x0.75	1.1	1.62	9.0 ± 0.3	26.7	100	160	1053	10.8	17.2	12 581 354
14x0.75	1.1	1.62	9.8 ± 0.3	26.7	100	160	1235	13.1	20.6	12 584 333
16x0.75	1.1	1.62	10.5 ± 0.4	26.7	100	160	1426	15.0	23.6	12 582 047
18G0.75	1.1	1.62	11.0 ± 0.4	26.7	100	160	1605	16.4	26.0	85 001 068
20x0.75	1.1	1.62	11.1 ± 0.4	26.7	100	160	1495	17.6	27.0	85 111 580
24x0.75	1.1	1.62	12.8 ± 0.4	26.7	100	160	2034	23.3	35.5	12 582 049
25x0.75	1.1	1.62	12.8 ± 0.4	26.7	100	160	2059	23.4	35.6	85 063 741
27x0.75	1.1	1.62	13.2 ± 0.4	26.7	90	160	2198	25.4	38.4	84 114 908
30x0.75	1.1	1.62	13.7 ± 0.4	26.7	90	160	2372	27.6	41.4	84 122 437
37x0.75	1.1	1.62	15.7 ± 0.5	26.7	90	160	3130	33.3	51.7	84 122 439
2x2x0.75	1.1	1.62	8.2 ± 0.3	26.7	120	210	859	4.9	10.7	12 582 050
3x2x0.75	1.1	1.62	9.0 ± 0.3	26.7	110	180	952	6.6	13.0	12 581 579
4x2x0.75	1.1	1.62	10.5 ± 0.4	26.7	100	170	1327	9.0	18.2	12 584 787
4x3x0.75	1.1	1.62	11.3 ± 0.4	26.7	100	160	1570	11.9	22.0	84 147 685
6x2x0.75	1.1	1.62	12.8 ± 0.4	26.7	100	160	1760	14.1	25.4	85 022 422
8x2x0.75	1.1	1.62	15.2 ± 0.5	26.7	100	160	2980	16.4	36.1	12 585 078
12x2x0.75	1.1	1.62	15.7 ± 0.5	26.7	100	160	2400	24.1	40.6	85 084 909
6x(2x0.75)	1.1	1.62	19.5 ± 0.5	26.7	-	-	5073	24.8	61.6	12 584 429



Traction cable

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Construction 1) n x mm ²	Conductor Dia.nom. mm	Core 2) Dia. nom. mm	Cable Dia. mm	R ₂₀ 3) max. Ω/km	C 4) core/ core/ core/ screen pF/m		Fireload nom. kJ/m	Weight nom. Copper Cable kg / 100m		H + S Part No.
2x1	1.2	1.77	5.6 ± 0.3	20.0	160	260	410	2.6	5.6	12 568 162
3x1	1.2	1.77	6.0 ± 0.3	20.0	160	260	478	4.1	7.4	12 568 163
4x1	1.2	1.77	6.5 ± 0.3	20.0	130	220	553	5.2	8.9	12 568 164
5x1	1.2	1.77	7.0 ± 0.3	20.0	120	200	656	6.3	10.5	12 583 729
6x1	1.2	1.77	7.8 ± 0.3	20.0	110	190	839	7.5	12.8	12 568 165
7x1	1.2	1.77	8.5 ± 0.3	20.0	110	180	1015	8.6	14.9	12 583 999
8x1	1.2	1.77	8.9 ± 0.3	20.0	110	180	1140	9.6	16.5	12 581 449
12x1	1.2	1.77	9.9 ± 0.3	20.0	100	170	1226	14.1	21.6	12 581 355
16x1	1.2	1.77	11.2 ± 0.4	20.0	100	170	1607	18.2	27.9	12 584 811
20x1	1.2	1.77	12.7 ± 0.4	20.0	100	170	2088	23.8	36.2	84 143 022
22x1	1.2	1.77	13.3 ± 0.3	20.0	100	170	2307	26.3	39.8	12 581 356
37x1	1.2	1.77	16.7 ± 0.5	20.0	100	160	3506	41.8	62.3	84 129 985
2x2x1	1.2	1.77	8.8 ± 0.3	20.0	130	220	957	5.9	12.6	12 581 357
5x2x1	1.2	1.77	12.7 ± 0.4	20.0	100	170	1949	14.6	7.8	12 584 697
6x2x1	1.2	1.77	14.0 ± 0.4	20.0	100	170	2424	17.2	33.4	12 584 412
8x2x1	1.2	1.77	16.7 ± 0.5	20.0	100	170	3668	22.9	46.7	12 585 378
3x4x1	1.2	1.77	12.4 ± 0.4	20.0	100	170	1885	16.6	28.7	12 583 002
4x4x1	1.2	1.77	14.2 ± 0.4	20.0	100	170	2362	21.1	36.2	12 584 118 ⁸⁾

⁸⁾ RADOX TENUIS- TW 600V 4x4x1 MM S UIC, cable construction according to UIC 558 (16- core connection cable); numbering of cores: 1,4,2,3 / 5,8,6,7 / 9,12,10,11 / 14,20,15,16



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Construction 1) n x mm ²	Conductor Dia.nom. mm	Core 2) Dia. nom. mm	Cable Dia. mm	R ₂₀ 3) max. Ω/km	C 4) core/ core/ core/ screen pF/m		Fireload nom. kJ/m	Weight nom. Copper Cable kg / 100m		H + S Part No.
2x1.5	1.5	2.17	6.5 ± 0.3	13.7	150	260	565	3.6	7.8	12 568 172
3x1.5	1.5	2.17	6.8 ± 0.3	13.7	150	260	599	5.6	9.6	12 568 173
3G1.5	1.5	2.17	6.8 ± 0.3	13.7	150	250	599	5.6	9.6	12 583 730
4x1.5	1.5	2.17	7.4 ± 0.3	13.7	130	210	675	6.9	11.6	12 568 174
4G1.5	1.5	2.17	7.4 ± 0.3	13.7	130	210	675	6.9	11.6	12 583 731
5x1.5	1.5	2.17	8.3 ± 0.3	13.7	120	190	911	8.7	14.5	12 582 053
6x1.5	1.5	2.17	9.0 ± 0.3	13.7	110	180	1094	10.3	17.1	12 581 465
7x1.5	1.5	2.17	10.0 ± 0.3	13.7	110	180	1360	12.5	20.9	85 031 963
7G1.5	1.5	2.17	10.0 ± 0.3	13.7	110	180	1360	12.5	20.9	85 021 166
8x1.5	1.5	2.17	11.0 ± 0.4	13.7	100	170	1694	14.3	24.7	12 586 408
9G1.5	1.5	2.17	11.6 ± 0.4	13.7	100	170	1922	15.7	27.4	85 024 345
10x1.5	1.5	2.17	11.4 ± 0.4	13.7	100	170	1610	17.0	27.1	12 583 544
12x1.5	1.5	2.17	12.1 ± 0.4	13.7	100	170	1749	21.3	32.2	12 582 054
16x1.5	1.5	2.17	13.6 ± 0.4	13.7	100	170	2245	27.5	41.1	12 582 055
18x1.5	1.5	2.17	14.4 ± 0.4	13.7	100	160	2559	31.1	46.5	12 582 056
42x1.5	1.5	2.17	21.2 ± 0.5	13.7	100	160	5494	68.2	100	85 020 521
48x1.5	1.5	2.17	21.9 ± 0.5	13.7	100	160	5224	76.3	120	85 022 986
64x1.5	1.5	2.17	25.5 ± 0.6	13.7	100	160	7713	102	146	85 020 967
2x2x1.5	1.5	2.17	10.6 ± 0.4	13.7	110	180	1400	9.0	18.5	84 105 087
4x2x1.5	1.5	2.17	13.5 ± 0.4	13.7	100	170	1846	17.0	29.6	12 585 486
6x2x1.5	1.5	2.17	16.3 ± 0.5	13.7	100	170	3226	23.2	44.7	12 585 487 9)
12x2x1.5	1.5	2.17	20.6 ± 0.5	13.7	100	160	4094	43.6	70.2	85 004 430
3x4x1.5	1.5	2.17	14.8 ± 0.4	13.7	100	160	2612	23.1	39.7	12 584 953

9) increased sheath thickness



Traction cable

RADOX TENUIS-TW 600V MM S

Construction 1) n x mm ²	Conductor Dia.nom. mm	Core 2) Dia. nom. mm	Cable Dia. mm	R ₂₀ 3) max. Ω/km	C 4) core/ core/ core screen pF/m		Fireload nom. kJ/m	Weight nom. Copper Cable kg / 100m		H + S Part No.
2x2.5	1.9	2.75	7.8 ± 0.3	8.21	170	280	807	6.3	12.0	12 568 175
3x2.5	1.9	2.75	8.2 ± 0.3	8.21	160	280	861	8.5	14.2	12 582 658
3G2.5	1.9	2.75	8.2 ± 0.3	8.21	160	280	861	8.6	14.4	12 583 736
4x2.5	1.9	2.75	9.1 ± 0.3	8.21	130	220	1054	11.1	17.9	12 582 058
5x2.5	1.9	2.75	10.3 ± 0.4	8.21	120	200	1365	14.3	23.0	12 584 926
6x2.5	1.9	2.75	11.4 ± 0.4	8.21	110	190	1723	17.0	27.7	12 582 059
7x2.5	1.9	2.75	12.5 ± 0.4	8.21	110	190	2072	21.0	33.7	12 584 927
10x2.5	1.9	2.75	14.2 ± 0.4	8.21	110	180	2384	28.4	43.4	84 091 733
16x2.5	1.9	2.75	17.1 ± 0.5	8.21	110	180	3296	42.8	64.3	85 092 868
30G2.5	1.9	2.75	22.5 ± 0.5	8.21	100	170	5460	80.0	114.9	85 078 241
2x2x2.5	1.9	2.75	13.2 ± 0.4	8.21	110	190	2167	15.1	29.7	12 583 449

Construction 1) n x mm ²	Conductor Dia.nom. mm	Core 2) Dia. nom. mm	Cable Dia. mm	R ₂₀ 3) max. Ω/km	C 4) core/ core/ core screen pF/m		Fireload nom. kJ/m	Weight nom. Copper Cable kg / 100m		H + S Part No.
2x4	2.45	3.35	8.9 ± 0.3	5.09	170	290	1077	9.3	16.3	12 583 873
3x4	2.45	3.35	9.7 ± 0.3	5.09	170	290	1216	12.9	20.9	85 003 133
4x4	2.45	3.35	11.0 ± 0.4	5.09	130	220	1526	17.7	27.4	85 003 135



Traction cable

RADOX TENUIS-TW 600V MM S

Cables with coloured cores:

Construction 1) n x mm ²	Con- ductor Dia. _{nom} mm	Core colours	Core 2) Dia. nom mm	Cable Dia. mm	R ₂₀ ³⁾ max Ω/km	C ⁴⁾		Fireload nom. kJ/m	Weight		H + S Part No.
						core/ core	core/ screen		Copper	Cable	
3V0.5	0.9	BN- BK- BU	1.42	5.2 ± 0.3	40.1	130	220	365	2.1	4.8	12 584 130
3V0.5	0.9	BU- RD- GN	1.42	5.2 ± 0.3	40.1	130	220	365	2.1	4.8	85 091 049
3V0.5	0.9	WH- RD- BK	1.42	5.2 ± 0.3	40.1	130	220	365	2.1	4.8	85 103 643
4V0.5	0.9	BU- WH- BN- BK	1.42	5.4 ± 0.3	40.1	110	190	380	2.7	5.4	12 584 097
4V0.5	0.9	BU- BK- BN- GNYE	1.42	5.4 ± 0.3	40.1	110	190	380	2.7	5.4	85 027 557
4V0.5	0.9	BU- RD- GN- YE	1.42	5.4 ± 0.3	40.1	110	190	380	2.7	5.4	85 091 050
5V0.5	0.9	BN- BK- BU- WH- GY	1.42	6.3 ± 0.3	40.1	100	170	545	3.7	7.4	84 092 080
2V0.75	1.1	BK- BU	1.62	5.3 ± 0.3	26.7	150	250	375	2.1	5.0	12 584 133

- 1) X: one colour, numbered
 G: one green- yellow core, others one colour, numbered
 V: various colours
 2) Cores: Core details according to H+S Datasheet 564 264
 3) R₂₀: Conductor resistance according to EN 50306- 2
 4) C': Capacity typical value

Colour Legend:

BK: black
 BN: brown
 RD: red
 OG: orange
 YE: yellow
 GN: green
 BU: blue
 VT: violet
 GNYE: green- yellow
 GY: grey
 WH: white
 PK: pink
 TQ: turquoise