

**Traction cable**  
**RADOX TENUIS-TW (EN 50306-4 3P/5P/7P) 600V MM S**

**Product description:**

RADOX TENUIS-TW (EN 50306-4 3P) 600V MM S  
RADOX TENUIS-TW (EN 50306-4 5P) 600V MM S

Multicore cables – screened and sheathed  
Multipair cables – individually screened and sheathed and with an overall sheath  
Multipair cables – general screened and sheathed

RADOX TENUIS-TW (EN 50306-4 7P) 600V MM S

Nominal voltage:  
Hazard level:

600 / 1000 V AC  
M (extra low temperature, extra oil and extra fuel resistant)

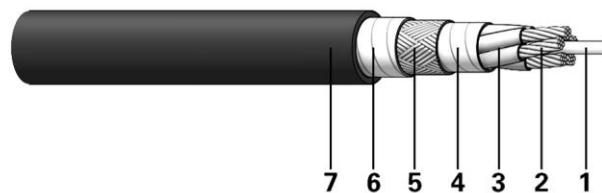
**General features:**

Halogen free electron-beam crosslinked cores with improved behaviour in case of fire, easy to strip 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.

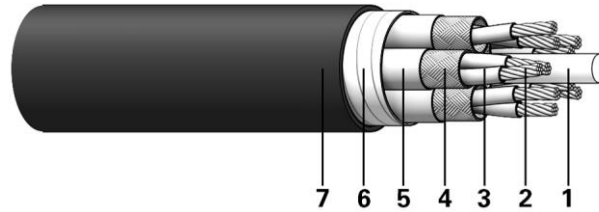
**General composition of cable:**



**RADOX TENUIS-TW (EN 50306-4 3P) 600V MM S / Multicore cables – screened and sheathed**

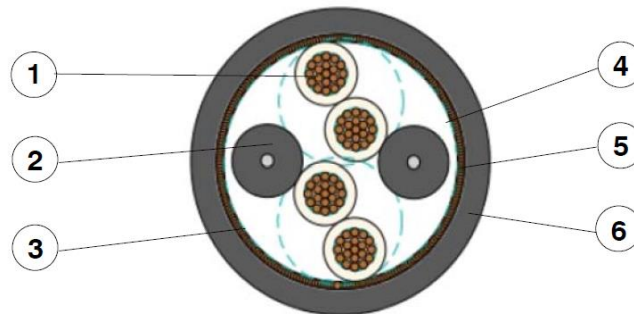
- |                         |   |
|-------------------------|---|
| 1. Filler (optional)    | RADOX 125 REC   |
| 2. Conductor            | Stranded tin plated copper, acc. to EN 50306-2          |
| 3. Insulation           | RADOX EI 303, colour: white, unless otherwise specified |
| 4. Separator (optional) | Tape  |
| 5. EMC-screen           | Tin plated copper braid                                 |
| 6. Separator            | Tape  |
| 7. Sheath               | RADOX EM 104, colour: black                             |

**Traction cable**  
**RADOX TENUIS-TW (EN 50306-4 3P/5P/7P) 600V MM S**



**RADOX TENUIS-TW (EN 50306-4 5P) 600V MM S** / Multipair cables – individually screened and sheathed and with an overall sheath

- |                         |  |
|-------------------------|--|
| 1. Filler (optional)    | RADOX 125 REC  |
| 2. Conductor            | Stranded tin plated copper, acc. to EN 50306-2         |
| 3. Insulation           | RADOX EI 303 colour: white, unless otherwise specified |
| 4. EMC-screen           | Tin plated copper braid                                |
| 5. Separator (optional) | Tape   |
| 6. Sheath               | RADOX S2, colour: black                                |
| 7. Separator            | Tape   |
| 8. Sheath               | RADOX EM 104, colour: black                            |



**RADOX TENUIS-TW (EN 50306-4 7P) 600V MM S** / Multipair cables – general screened and sheathed

- |                          |   |
|--------------------------|---|
| 1. EN 50306-2 600 V core | Conductor: Stranded tin plated copper, acc. to EN 50306-2           |
|                          | Insulation: RADOX EI 303, colour: white, unless otherwise specified |
| 2. Filler (optional)     | RADOX 125 REC   |
| 3. Separator (optional)  | Tape  |
| 4. EMC-screen            | Tin plated copper braid   |
| 5. Separator             | Tape  |
| 6. Sheath                | RADOX EM 104, colour: black   |

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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.

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# Traction cable

## RADOX TENUIS-TW (EN 50306-4 3P/5P/7P) 600V MM S

### Marking:

[a] HUBER+SUHNER RADOX TENUIS-TW (EN 50306-4 [b]) 600V [c] MM S [d]-[e] [f] [g] [h]

		example:
[a]	Meter marking (in m)	= 123456 = m
[b]	EN 50306 Table number & Cable class	3P
[c]	Construction	3X1.5
[d]	Part number	12345678
[e]	Batch number	1234567
[f]	Production week and year	03-2017
[g]	Production place (only if China)	CN
[h]	CRCC certification (only if available)	CRCC10218P11529R1M-2

### Technical Data:

Voltage rating cond.-earth	U <sub>0</sub>	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 <sub>m</sub>	1200	V AC
maximum permissible Voltage rating DC cond.-earth	V <sub>0</sub>	900	V DC
maximum permissible Voltage rating DC cond.-cond.		1500	V DC
Test Voltage		3500	V AC
		8400	V DC
Temperature range		- 50 ... + 125	°C
Min. bending radius			
fixed installation	cable diameter ≤ 12 mm	3 x D	
	cable diameter > 12 mm	4 x D	
sporadic movements	cable diameter ≤ 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 EN 60811-504/505, respectively low temperature behaviour tests for 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.

### The cables are in conformity with:

<b>Fire protection on railway vehicles, hazard level</b>	<b>HL1 - HL3</b>	<b>EN 45545-2</b>
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
Toxicity	ITC ≤ 6	EN 50305, 9.2

<b>Fire protection on railway vehicles</b>	<b>Fulfilled</b>	<b>NFPA 130</b>
Vertical flame spread, bunched	L ≤ 1.5 m	UL 1685, 12 (FT4 exp.)
Smoke density	TSR ≤ 150 m <sup>2</sup> , PSRR ≤ 0.40 m <sup>2</sup> /s	UL 1685, 12 (FT4 exp.)

# Traction cable

## RADOX TENUIS-TW (EN 50306-4 3P/5P/7P) 600V MM S

**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 multicore cables

Table 1.1A: Customized Types RADOX TENUIS-TW (EN 50306-4 3P) 600V MM S

Cable <sup>1)</sup> Type [n x mm <sup>2</sup> ]	Conductor <sup>2)</sup>		Core <sup>2)</sup>		Screen <sup>3)</sup>		Cable		Fire Load nom. [kJ/m]	Combustible Material nom. [kg/100m]	Cable Weight nom. [kg/100m]	H+S Part No.
	Ø nom. [mm]	R <sub>20</sub> max. [Ω/km]	Ø nom. [mm]	Colours	Ø nom. [mm]	nom. [mm <sup>2</sup> ]	Ø [mm]	Colour				
2X0.25	0.60	88.5	1.17	WH	2.8	0.59	4.05±0.3	BK	224	1.7	2.6	85032996
3X0.25	0.60	88.5	1.17	WH	3.0	0.72	4.25±0.3	BK	245	1.7	3	85075937
2X0.34	0.76	54.7	1.30	WH	3.1	0.65	4.7±0.3	BK	304	2.3	3.7	85070508
3X0.34	0.76	54.7	1.30	WH	3.3	0.78	4.9±0.3	BK	325	2.4	4.2	85024293
4X0.34	0.76	54.7	1.30	WH	3.6	0.85	5.25±0.3	BK	368	2.7	4.9	85070510
24X0.34	0.76	54.7	1.30	WH	8.5	2.8	10.5±0.4	BK	1423	9.1	20.5	85073629
2X0.5	0.84	40.1	1.42	WH	3.3	0.72	4.8±0.3	BK	315	2.3	3.9	12568117
3X0.5	0.84	40.1	1.42	WH	3.5	0.85	5.3±0.3	BK	380	2.8	4.9	12568118
3X(0.5)	0.84	40.1	1.42	WH	7.0	2.67	8.5±0.3	BK	867	6.3	11.8	85202767
3V0.5	0.84	40.1	1.42	BN-BK- BU	3.5	0.85	5.2±0.3	BK	365	2.7	4.8	12584130
3V0.5	0.84	40.1	1.42	BU-RD- GN	3.5	0.85	5.2±0.3	BK	365	2.7	4.8	85091049
3V0.5	0.84	40.1	1.42	WH-RD- BK	3.5	0.85	5.2±0.3	BK	365	2.7	4.8	85103643
4X0.5	0.84	40.1	1.42	WH	3.9	0.92	5.4±0.3	BK	380	2.7	5.4	12568119
4X0.5	0.84	40.1	1.42	WH	3.9	0.92	8.35±0.2	BK	1005	2.7	10.4	85102247 <sup>4)</sup>
4V0.5	0.84	40.1	1.42	BU-WH- BN-BK	3.9	0.92	5.4±0.3	BK	380	2.7	5.4	12584097
4V0.5	0.84	40.1	1.42	BU-BK- BN- GNYE	3.9	0.92	5.4±0.3	BK	380	2.7	5.4	85027557
4V0.5	0.84	40.1	1.42	BU-RD- GN-YE	3.9	0.92	5.4±0.3	BK	380	2.7	5.4	85091050
5X0.5	0.84	40.1	1.42	WH	4.7	1.37	6.2±0.3	BK	527	3.8	7.2	12581351
5V05	0.84	40.1	1.42	BN-WH- GY-YE- GN	4.7	1.37	5.65±0.3	BK	421	2.9	6.1	85185040
6X0.5	0.84	40.1	1.42	WH	5.0	1.57	6.5±0.3	BK	590	3.8	8.2	12568120
6X0.5	0.84	40.1	1.42	WH	4.9	1.24	9.25±0.2	BK	1240	9.4	13.2	85102248 <sup>4)</sup>
7X0.5	0.84	40.1	1.42	WH	5.7	1.77	7.2±0.3	BK	751	4.7	9.7	12583138
8X0.5	0.84	40.1	1.42	WH	5.9	2.06	7.5±0.3	BK	831	5.2	10.9	12581352
8X0.5	0.84	40.1	1.42	WH	5.9	1.87	10.1±0.2	BK	1485	10.9	16.3	85105846 <sup>4)</sup>
8X(0.5)	0.84	40.1	1.42	WH	8.4	2.65	10.5±0.4	BK	1550	10.2	20	85091074 <sup>7)</sup>
9X0.5	0.84	40.1	1.42	WH	6.2	2.06	7.9±0.3	BK	813	5.2	11.4	12581450

**Traction cable**
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Cable <sup>1)</sup> Type [n x mm <sup>2</sup> ]	Conductor <sup>2)</sup>		Core <sup>2)</sup>		Screen <sup>3)</sup>		Cable		Fire Load nom. [kJ/m]	Combustible Material nom. [kg/100m]	Cable Weight nom. [kg/100m]	H+S Part No.
	Ø nom. [mm]	R <sub>20</sub> max. [Ω/km]	Ø nom. [mm]	Colours	Ø nom. [mm]	nom. [mm <sup>2</sup> ]	Ø [mm]	Colour				
10X0.5	0.84	40.1	1.42	WH	6.2	1.96	7.9±0.3	BK	839	5.3	11.9	84112800
12X0.5	0.84	40.1	1.42	WH	6.5	2.06	8.1±0.3	BK	882	5.4	13	12581353
15X0.5	0.84	40.1	1.42	WH	7.3	2.36	9.0±0.3	BK	1114	6.7	16	12582036
15X0.5	0.84	40.1	1.42	WH	7.7	3.29	13.0 +0.2/-0.3	BK	2510	18.4	28.9	12551839 <sup>5)</sup>
16X0.5	0.84	40.1	1.42	WH	7.3	2.4	9.1±0.3	BK	1123	6.6	16.4	12583727
20X0.5	0.84	40.1	1.42	WH	8.6	3.8	10.6±0.4	BK	1544	9.3	22.2	84123311
25X0.5	0.84	40.1	1.42	WH	9.2	3.8	11.3±0.4	BK	1708	10.1	25.4	12582037
30X0.5	0.84	40.1	1.42	WH	9.8	4.0	11.5±0.4	BK	1630	10	26.5	12582909
36X0.5	0.84	40.1	1.42	WH	11.0	6.34	13.3±0.4	BK	2365	13.7	36.7	12582038
42X0.5	0.84	40.1	1.42	WH	11.9	6.34	14.3±0.4	BK	2565	16	41.2	12582039
2X0.75	1.04	26.7	1.62	WH	3.7	0.78	5.0±0.3	BK	330	2.5	4.6	12568514
2V0.75	1.04	26.7	1.62	BK-BU	3.7	0.78	5.3±0.3	BK	375	2.9	5	12584133
2X0.75	1.04	26.7	1.62	WH	3.7	0.92	4.95±0.3	BK	294	2.7	5.6	85019856 <sup>7)</sup>
3X0.75	1.04	26.7	1.62	WH	4.0	0.92	5.4±0.3	BK	370	2.6	5.6	12568515
3G0.75	1.04	26.7	1.62	WH	4.0	0.92	5.4±0.3	BK	370	2.6	5.6	12583993
3X0.75	1.04	26.7	1.62	WH	4.3	1.05	5.55±0.3	BK	382	2.7	6.5	85019857 <sup>7)</sup>
4X0.75	1.04	26.7	1.62	WH	4.4	1.05	6.0±0.3	BK	474	3.2	7.4	12568516
5X0.75	1.04	26.7	1.62	WH	5.1	1.57	6.7±0.3	BK	611	4	9.2	85063744
6X0.75	1.04	26.7	1.62	WH	5.6	1.77	7.2±0.3	BK	721	4.6	10.6	12568517
7X0.75	1.04	26.7	1.62	WH	6.3	2.06	8.0±0.3	BK	909	5.7	12.7	12581578
8X0.75	1.04	26.7	1.62	WH	6.8	2.36	8.4±0.3	BK	1024	6.3	14.2	12582045
10X0.75	1.04	26.7	1.62	WH	7.0	2.36	8.7±0.3	BK	986	6.2	15.5	12582046
12X0.75	1.04	26.7	1.62	WH	7.3	2.36	9.0±0.3	BK	1053	6.4	17.2	12581354
14X0.75	1.04	26.7	1.62	WH	7.7	2.5	9.8±0.3	BK	1235	7.5	20.6	12584333
16X0.75	1.04	26.7	1.62	WH	8.6	3.76	10.5±0.4	BK	1426	8.6	23.6	12582047
18G0.75	1.04	26.7	1.62	WH	9.0	3.76	11.0±0.4	BK	1605	9.6	26	85001068
20X0.75	1.04	26.7	1.62	WH	9.4	3.76	11.1±0.4	BK	1495	9.4	27	85111580
2X1	1.21	20.0	1.77	WH	4.0	0.85	5.6±0.3	BK	410	3	5.6	12568162
3X1	1.21	20.0	1.77	WH	4.3	1.05	6.0±0.3	BK	478	3.3	7.4	12568163
3X(1)	1.21	20.0	1.77	WH	8.0	2.36	9.55±0.3	BK	1102	8.6	15	85135079
4X1	1.21	20.0	1.77	WH	4.8	1.18	6.5±0.3	BK	553	3.7	8.9	12568164
5X1	1.21	20.0	1.77	WH	5.5	1.67	7.0±0.3	BK	656	4.2	10.5	12583729
6X1	1.21	20.0	1.77	WH	6.1	2.06	7.8±0.3	BK	839	5.3	12.8	12568165
7X1	1.21	20.0	1.77	WH	6.9	2.36	8.5±0.3	BK	1015	6.3	14.9	12583999
8X1	1.21	20.0	1.77	WH	7.3	2.36	8.9±0.3	BK	1140	6.9	16.5	12581449
12X1	1.21	20.0	1.77	WH	8.1	3.29	9.9±0.3	BK	1226	7.5	21.6	12581355
16X1	1.21	20.0	1.77	WH	9.2	3.76	11.2±0.4	BK	1607	9.7	27.9	12584811
20X1	1.21	20.0	1.77	WH	10.5	5.55	12.7±0.4	BK	2088	12.4	36.2	84143022
25X1	1.21	20.0	1.77	WH	11.5	5.94	13.8±0.4	BK	2065	13.4	41.3	85027258
2X1.5	1.44	13.7	2.17	WH	4.8	1.05	6.5±0.3	BK	565	4.2	7.8	12568172
3X1.5	1.44	13.7	2.17	WH	5.1	1.24	6.8±0.3	BK	600	4	9.6	12568173
3G1.5	1.44	13.7	2.17	WH	5.1	1.24	6.8±0.3	BK	600	4	9.6	12583730
3V1.5	1.44	13.7	2.17	WH-BN- BU	5.1	1.24	6.8±0.3	BK	600	4	9.6	85115172
4X1.5	1.44	13.7	2.17	WH	5.8	1.77	7.4±0.3	BK	675	4.7	11.6	12568174
4G1.5	1.44	13.7	2.17	WH	5.8	1.77	7.4±0.3	BK	675	4.7	11.6	12583731
5X1.5	1.44	13.7	2.17	WH	6.7	2.06	8.3±0.3	BK	911	5.8	14.5	12582053
6X1.5	1.44	13.7	2.17	WH	7.2	2.36	9.0±0.3	BK	1094	6.8	17.1	12581465
7X1.5	1.44	13.7	2.17	WH	8.1	2.50	10.0±0.3	BK	1360	8.4	20.9	85031963
7G1.5	1.44	13.7	2.17	WH	8.1	2.50	10.0±0.3	BK	1360	8.4	20.9	85021166
8X1.5	1.44	13.7	2.17	WH	9.1	3.76	11.0±0.4	BK	1694	10.4	24.7	12586408

**Traction cable**
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Cable <sup>1)</sup> Type [n x mm <sup>2</sup> ]	Conductor <sup>2)</sup>		Core <sup>2)</sup>		Screen <sup>3)</sup>		Cable		Fire Load nom. [kJ/m]	Combustible Material nom. [kg/100m]	Cable Weight nom. [kg/100m]	H+S Part No.
	Ø nom. [mm]	R <sub>20</sub> max. [Ω/km]	Ø nom. [mm]	Colours	Ø nom. [mm]	nom. [mm <sup>2</sup> ]	Ø [mm]	Colour				
10X1.5	1.44	13.7	2.17	WH	9.4	3.76	11.4±0.4	BK	1610	10.1	27.1	12583544
12X1.5	1.44	13.7	2.17	WH	9.7	4.00	12.1±0.4	BK	1749	10.9	32.2	12582054
16X1.5	1.44	13.7	2.17	WH	11.4	6.34	13.6±0.4	BK	2245	13.6	41.1	12582055
18X1.5	1.44	13.7	2.17	WH	12.1	7.13	14.4±0.4	BK	2559	15.4	46.5	12582056
2X2.5	1.85	8.21	2.75	WH	6.0	1.31	7.8±0.3	BK	807	5.7	12	12568175
3X2.5	1.85	8.21	2.75	WH	6.5	1.91	8.2±0.3	BK	861	5.7	14.2	12582658
3X2.5	1.85	8.21	2.75	BU	6.5	1.96	8.2±0.3	BK	862	6	14	85134585
3G2.5	1.85	8.21	2.75	WH	6.5	1.91	8.2±0.3	BK	861	5.7	14.4	12583736
4X2.5	1.85	8.21	2.75	WH	7.5	2.21	9.1±0.3	BK	1054	6.8	17.9	12582058
5X2.5	1.85	8.21	2.75	WH	8.5	3.29	10.3±0.4	BK	1365	8.7	23	12584926
6X2.5	1.85	8.21	2.75	WH	9.4	3.76	11.4±0.4	BK	1723	10.7	27.7	12582059
7X2.5	1.85	8.21	2.75	WH	10.4	5.55	12.5±0.4	BK	2072	12.7	33.7	12584927
10X2.5	1.85	8.21	2.75	WH	11.9	6.34	14.2±0.4	BK	2384	15	43.4	84091733
16X2.5	1.85	8.21	2.75	WH	14.2	7.53	17.1±0.5	BK	3296	21.5	64.3	85092868
2X4	2.35	5.09	3.35	WH	7.3	2.36	8.9±0.3	BK	1077	7	16.3	12583873
2X4	2.35	5.09	3.35	WH	7.8	2.36	9.35±0.3	BK	1029	7.1	19.8	85118737 <sup>7)</sup>
4X4	2.35	5.09	3.35	WH	9.0	3.76	11.0±0.4	BK	1526	9.7	27.4	85003135
2X0.5 + 3X0.75	0.84 1.04	40.1 26.7	1.42 1.62	WH	6.1	1.87	7.7±0.3	BK	750	5.1	10	85065402 <sup>6)</sup>
19C	1.04 1.21	26.7 20.0	1.62 1.77	WH	14.5	8.32	16.9±0.5	BK	2944	21.5	47.5	12585224
24C	0.84 1.04	40.1 26.7	1.42 1.62	WH	14.2	8.32	16.6±0.5	BK	3380	23.9	45.6	85128189
25C	1.04	26.7	1.62	WH	13.1	7.13	15.0±0.5	BK	2562	16.1	40	84143553

<sup>1)</sup> X: one colour, numbered

G: one green-yellow core, others one colour, numbered

V: various colours

<sup>2)</sup> Construction details of the core is according Technical Datasheet 564264

<sup>3)</sup> Metallic screen coverage according EN 50306-4

<sup>4)</sup> RADOX TENUIS-TW 600V ... MM S SPEC; double sheathed

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

<sup>6)</sup> Colour of sheath: violet, 2X0.5 (numbered: 4...5), 3X0.75 (numbered: 1...3)

<sup>7)</sup> Drain wire

<sup>8)</sup> 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

**Traction cable**
**RADOX TENUIS-TW (EN 50306-4 3P/5P/7P) 600V MM S**

Table 1.2A: Customized Types RADOX TENUIS-TW (EN 50306-4 5P) 600V MM S

Cable <sup>1)</sup>  Type  [n x mm <sup>2</sup> ]	Conductor <sup>2)</sup>		Core <sup>2)</sup>		Screen <sup>3)</sup>		Cable		Fire Load nom. [kJ/m]	Combustible Material nom. [kg/100m]	Cable Weight nom. [kg/100m]	H+S Part No.
	Ø nom. [mm]	R <sub>20</sub> max. [Ω/km]	Ø nom. [mm]	Colours	Ø nom. [mm]	nom. [mm <sup>2</sup> ]	Ø [mm]	Colour				
5X(2X0.5)	0.84	40.1	1.42	WH	12.1	6.34	14.2±0.4	BK	2501	17.0	30.6	85174713
6X(2X0.75)	1.04	26.7	1.62	WH	16.7	10.77	19.5±0.5	BK	5073	36.8	61.6	12584429
3X(3X0.75)	1.04	26.7	1.62	WH	15.2	7.92	17.6±0.5	BK	4177	30.6	46.6	85207004
4X(2X0.34) +4X0.34	0.76	54.7	1.30	WH	11.1	4.71	12.8±0.4	BK	2041	15.5	26.6	85188449

<sup>1)</sup> X: one colour, numbered

G: one green-yellow core, others one colour, numbered

V: various colours

<sup>2)</sup> Construction details of the core is according Technical Datasheet 564264

<sup>3)</sup> Metallic screen coverage according EN 50306-4

# Traction cable

## RADOX TENUIS-TW (EN 50306-4 3P/5P/7P) 600V MM S

Table 1.3A: Customized Types RADOX TENUIS-TW (EN 50306-4 7P) 600V MM S

Cable <sup>1)</sup> Type [n x mm <sup>2</sup> ]	Conductor <sup>2)</sup>		Core <sup>2)</sup>		Screen <sup>3)</sup>		Cable		Fire Load nom. [kJ/m]	Combustible Material nom. [kg/100m]	Cable Weight nom. [kg/100m]	H+S Part No.
	Ø nom. [mm]	R <sub>20</sub> max. [Ω/km]	Ø nom. [mm]	Colours	Ø nom. [mm]	nom. [mm <sup>2</sup> ]	Ø [mm]	Colour				
10X2X0.25	0.60	88.5	1.17	WH	9.2	3.76	11.1±0.4	BK	1438	9.6	17.4	85070661
24X2X0.25	0.60	88.5	1.17	WH	12.4	7.13	15.5±0.5	BK	2945	18.8	34.2	85067930
2X2X0.5	0.84	40.1	1.42	WH	6.0	1.77	7.2±0.3	BK	625	4.4	8	12568121
2X3X0.5	0.84	40.1	1.42	WH	6.9	2.51	8.55±0.3	BK	930	6.4	11.5	85115746
3X2X0.5	0.84	40.1	1.42	WH	6.5	1.96	8.1±0.3	BK	802	5.5	10.3	12581451
4X2X0.5	0.84	40.1	1.42	WH	7.4	1.76	9.3±0.3	BK	1076	7.5	13.6	12568122
5X2X0.5	0.84	40.1	1.42	WH	8.3	3.29	10.3±0.4	BK	1338	9.1	17	12582041
5X2X0.5	0.84	40.1	1.42	WH	8.2	2.50	9.7±0.3	BK	1130	8	15.1	85019855 <sup>7)</sup>
6X2X0.5	0.84	40.1	1.42	WH	8.8	2.95	11.1±0.4	BK	1592	10.5	19.8	12582042
8X2X0.5	0.84	40.1	1.42	WH	10.6	4.71	13.5±0.4	BK	2422	15.5	29.3	12583728
10X2X0.5	0.84	40.1	1.42	WH	11.7	6.34	13.7±0.4	BK	1996	13.3	29	84104571
12X2X0.5	0.84	40.1	1.42	WH	11.1	4.47	13.0±0.3	BK	1770	10.8	28.3	12581358
2X2X0.75	1.04	26.7	1.62	WH	6.6	2.06	8.2±0.3	BK	859	5.8	10.7	12582050
3X2X0.75	1.04	26.7	1.62	WH	7.4	2.36	9.0±0.3	BK	952	6.4	13	12581579
4X2X0.75	1.04	26.7	1.62	WH	8.6	3.29	10.5±0.4	BK	1327	9.2	18.2	12584787
8X2X0.75	1.04	26.7	1.62	WH	12.7	5.29	15.2±0.5	BK	2980	19.7	36.1	12585078
12X2X0.75	1.04	26.7	1.62	WH	13.1	7.13	15.7±0.5	BK	2400	16.5	40.6	85084909
2X2X1	1.21	20.0	1.77	WH	7.2	2.36	8.8±0.3	BK	957	6.7	12.6	12581357
3X4X1	1.21	20.0	1.77	WH	10.3	5.55	12.4±0.4	BK	1885	12.1	28.7	12583002
4X4X1	1.21	20.0	1.77	WH	11.9	6.34	14.2±0.4	BK	2362	15.1	36.2	12584118 <sup>8)</sup>
5X2X1	1.21	20.0	1.77	WH	10.5	5.55	12.7±0.4	BK	1949	13.2	7.8	12584697
6X2X1	1.21	20.0	1.77	WH	11.7	6.34	14.0±0.4	BK	2424	16.2	33.4	12584412
8X2X1	1.21	20.0	1.77	WH	14.0	8.32	16.7±0.5	BK	3668	23.8	46.7	12585378
2X2X1.5	1.44	13.7	2.17	WH	8.9	2.95	10.6±0.4	BK	1400	9.5	18.5	84105087 <sup>9)</sup>
4X2X1.5	1.44	13.7	2.17	WH	10.9	4.24	13.5±0.4	BK	1846	12.6	29.6	12585486
6X2X1.5	1.44	13.7	2.17	WH	13.8	7.13	16.3±0.5	BK	3226	21.5	44.7	12585487
12X2X1.5	1.44	13.7	2.17	WH	17.9	11.67	20.6±0.5	BK	4094	26.6	70.2	85004430
20C	0.60	88.5	1.17	WH	2.8 10.2	0.59 4.71	12.3±0.4	BK	1435	9.6	24.0	85227972 <sup>10)</sup>

<sup>1)</sup> X: one colour, numbered

G: one green-yellow core, others one colour, numbered

V: various colours

<sup>2)</sup> Construction details of the core is according Technical Datasheet 564264

<sup>3)</sup> Metallic screen coverage according EN 50306-4

<sup>4)</sup> Increased sheath thickness

<sup>7)</sup> Drain wire

<sup>8)</sup> 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

<sup>9)</sup> Increased sheath thickness

<sup>10)</sup> Pairs screened but not sheathed