



USE OF CABLE

increased oil-resistant control and power supply cables for use in cable trays or cable channels, especially for export-orientated machinery. For medium mechanical stresses, for fixed or flexible installation where free movement is required without tensile stress and without forced guidance systems, in dry, damp and wet interiors (incl. water-oil mixtures). For outdoor use and also for direct burial. TC-ER (Tray Cable - Exposed Run) approval open wiring between cable tray and industrial machines/plants acc. NEC 336.10(7)



SPECIAL FEATURES

- increased resistance to oil by special PVC outer sheath, largely resistant to acids and bases - oil-resistant acc. to UL OIL RES I
- water-resistant acc. to UL wet approval 75°C // direct burial
- UV-resistant acc. to EN 50396 and HD 605 A1; SUN RES acc. to UL 1581
- TC-ER (Tray Cable - Exposed Run) approval (no ER approval for 2-core dimensions)
- WTTC (WindTurbine Tray Cable) approval
- machine tools compliant with UL (Machine Tool Wire)

REMARKS

- conform to RoHS, conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- UL listed acc. to UL1277 and 1063 & UL/CSA recognized acc. to UL 10012 and 21179 and CSA AWM I/II A/B
- conform to NFPA 79 2007 wiring norms and NEC 336.10 (7) Class1,Div.2 in acc. to NEC "National Electric Code" Art. 336, 392, 501

PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	Acc. to IEC cl. 5, UL 83 standard
Core insulation:	PVC
Core identification:	Acc. to DIN VDE 0293 black cores with white numerals with GNYE from 3 cores
Stranding:	Stranded in layers
Outer sheath:	PVC
Sheath colour:	Black, RAL 9005
Rated voltage:	600 V (TC and MTW); 1000 V (WTTC & AWM); 0,6/1 kV (IEC)
Testing voltage:	6 kV
Conductor resistance:	Acc. to IEC 60228 cl. 5
Min. bending radius fixed:	4 x d
Min. bending radius moved:	13 x d
Operat. temp. fixed min/max:	-40 °C / +90 °C (Tray Cable - MTW); +105 °C (cUR AWM)
Operat. temp. moved min/max:	-5 °C / +90 °C (Tray Cable - MTW); +105 °C (cUR AWM)
Burning behavior:	Flame-retardant acc. to IEC 60332-1, IEC 60332-3A and UL category FT4/IEEE
Resistant to oil:	UL 1277 and UL 1063 (oil-resistant acc. to UL OIL RES I and water-resistant, UL wet approval 75 °C)
Standard:	UL 1277, UL 1063 (MTW), NEC 336.10 (7) class1, Div. 2 in acc. to NEC Art. 336, 392, 501
Approvals:	UL listed acc. to UL 1277 and 1063 - UL/CSA recognized acc. to UL 10012 und 2587

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1004282	2 X 1 (AWG 18)	7,9	19,20	87,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004283	3 G 1 (AWG 18)	8,3	28,80	101,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004284	4 G 1 (AWG 18)	9,1	38,40	125,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004285	5 G 1 (AWG 18)	9,9	48,00	149,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004286	7 G 1 (AWG 18)	10,8	67,20	185,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004287	12 G 1 (AWG 18)	14,6	115,20	335,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004288	18 G 1 (AWG 18)	17,0	172,80	465,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA

2-NORM TRAY+UV DB TC-ER MTW BLACK

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1004289	25 G 1 (AWG 18)	19,4	240,00	616,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004290	2 X 1,5 (AWG 16)	8,6	28,80	107,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004291	3 G 1,5 (AWG 16)	9,1	43,20	128,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004292	4 G 1,5 (AWG 16)	9,9	57,60	156,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004293	5 G 1,5 (AWG 16)	10,8	72,00	188,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004294	7 G 1,5 (AWG 16)	11,8	100,80	235,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004295	12 G 1,5 (AWG 16)	16,0	172,80	426,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004296	18 G 1,5 (AWG 16)	18,7	259,20	598,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004297	25 G 1,5 (AWG 16)	22,6	360,00	855,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004298	2 X 2,5 (AWG 14)	9,4	48,00	138,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004299	3 G 2,5 (AWG 14)	9,9	72,00	166,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004300	4 G 2,5 (AWG 14)	10,8	96,00	205,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004301	5 G 2,5 (AWG 14)	11,9	120,00	252,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004302	7 G 2,5 (AWG 14)	13,0	168,00	318,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004303	12 G 2,5 (AWG 14)	17,6	288,00	572,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004304	18 G 2,5 (AWG 14)	20,8	432,00	815,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004305	3 G 4 (AWG 12)	11,3	115,20	232,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004306	4 G 4 (AWG 12)	12,4	153,60	290,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004307	5 G 4 (AWG 12)	14,4	192,00	379,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004308	7 G 4 (AWG 12)	15,6	268,80	480,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004309	4 G 6 (AWG 10)	14,4	230,40	410,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004310	5 G 6 (AWG 10)	15,7	288,00	510,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004311	4 G 10 (AWG 8)	18,6	384,00	679,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004312	5 G 10 (AWG 8)	20,6	480,00	839,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004313	4 G 16 (AWG 6)	23,8	614,40	1103,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004314	5 G 16 (AWG 6)	26,3	768,00	1360,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004315	4 G 25 (AWG 4)	27,3	960,00	1560,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004316	4 G 35 (AWG 2)	30,2	1344,00	2030,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004317	4 G 50 (AWG 1)	36,7	1920,00	2953,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA
1004318	4 G 70 (AWG 2/0)	41,7	2688,00	3971,00	black	V0: 2-NORM TRAY+UV DB TC-ER MTW UL/CSA