



USE OF CABLE

increased oil-resistant control and power supply cables for use in cable trays or cable channels, especially for plant & machinery destined for the North American Market. 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). 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
- due to UL/CSA approval up to 600 V resp. 1000 V parallel laying with other cables with identical current voltage is permitted
- 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
- recommend for EMC-applications
- UL listed acc. to UL1277+1063 & UL/CSA recognized acc. to UL 10012+2587
- 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 60228 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
Shield3:	Copper braid tinned, coverage approx. 85%
Outer sheath:	PVC
Sheath colour:	Grey, RAL 7001
Rated voltage:	600 V (TC und MTW); as of production date january 2017: 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:	6 x d
Min. bending radius moved:	20 x d
Operat. temp. fixed min/max:	-40 °C / +90 °C
Operat. temp. moved min/max:	-5 °C / +90 °C
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 and 2587

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1004171	2 X 1 (AWG 18)	8,5	42,10	98,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004172	3 G 1 (AWG 18)	8,9	56,60	120,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004173	4 G 1 (AWG 18)	9,7	66,10	142,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004399	4 X 1 (AWG 18)	9,7	66,10	142,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004174	5 G 1 (AWG 18)	10,5	80,60	171,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004175	7 G 1 (AWG 18)	11,4	104,60	225,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA

2-NORM TRAY-CY TC-ER MTW GREY

Product No.	Dimension [n x mm ²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1004867	7 X 1 (AWG 18)	11,4	104,60	225,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1005860	1 X 185 (350 MCM)	28,0	1896,30	2309,90	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004176	12 G 1 (AWG 18)	15,5	181,10	365,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004177	18 G 1 (AWG 18)	17,9	255,40	507,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004178	25 G 1 (AWG 18)	20,3	330,80	638,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004179	2 X 1,5 (AWG 16)	9,2	56,60	118,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004181	3 G 1,5 (AWG 16)	9,7	71,10	141,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004180	4 G 1,5 (AWG 16)	10,5	90,20	177,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004182	5 G 1,5 (AWG 16)	11,4	109,00	210,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004183	7 G 1,5 (AWG 16)	12,4	142,70	278,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004184	12 G 1,5 (AWG 16)	16,9	247,00	451,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004185	18 G 1,5 (AWG 16)	19,6	350,30	632,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004186	25 G 1,5 (AWG 16)	23,4	467,20	866,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004187	2 X 2,5 (AWG 16)	10,0	75,90	143,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004188	3 G 2,5 (AWG 14)	10,5	104,60	181,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004189	4 G 2,5 (AWG 14)	11,4	133,00	228,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004190	5 G 2,5 (AWG 14)	12,5	161,90	273,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004191	7 G 2,5 (AWG 14)	14,6	225,80	402,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004192	12 G 2,5 (AWG 14)	18,5	370,50	593,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004193	18 G 2,5 (AWG 14)	22,3	531,30	893,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004194	3 G 4 (AWG 12)	11,9	152,30	242,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004195	4 G 4 (AWG 12)	13,0	211,20	350,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004196	5 G 4 (AWG 12)	15,2	258,00	418,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004197	7 G 4 (AWG 12)	16,5	343,10	557,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004198	4 G 6 (AWG 10)	15,3	296,40	450,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004199	5 G 6 (AWG 10)	16,7	362,50	539,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004200	4 G 10 (AWG 8)	19,4	474,60	718,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004201	5 G 10 (AWG 8)	22,4	579,30	917,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004202	4 G 16 (AWG 6)	24,6	756,50	1162,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004203	5 G 16 (AWG 6)	27,1	922,90	1398,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004204	4 G 25 (AWG 4)	28,1	1128,20	1616,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004205	4 G 35 (AWG 2)	31,0	1524,90	2059,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004206	4 G 50 (AWG 1)	37,6	2152,30	2938,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA
1004856	4 G 70 (AWG 2/0)	44,2	2976,00	4397,00	grey	V0: 2-NORM TRAY-CY TC-ER MTW UL/CSA