

TROMMELFLEX PUR-HF

PUR Drum reeling cable, Halogen Free



Application
 Trommelflex PUR-HF cable is specially designed for use on both spring operated and motorised cable reeling drums, it is also suitable for other applications such as cable drag chains and transportation systems. It is suitable for use in dry and damp areas, explosive environments and a variety of heavy duty indoor and outdoor applications where high mechanical stresses are involved.

Construction

Conductor :	Fine stranded plain copper according to VDE 0295 Class 5
Insulation:	Polyester based halogen free compound
Core colour :	Up to 5 cores according to VDE 0293 -7 cores and above
white	
	with black numbers with green/yellow earth
Core Arrangement :	Cores twisted around Central textile filler with short lengths
of lay	
Inner Sheath :	Special polyurethane - Halogen free
Support braid :	Textile braid Between inner and outer sheaths
Outer sheath :	Special polyurethane, flame resistant & halogen free
Sheath colour :	Black
Imprint :	Trommelflex PUR-HF 600/1000V

Working Environment

Maximum operating temperature in fixed application :	-50 deg C - + 90 deg C
Maximum operating temperature in mobile application :	-40 deg C - + 90 deg C
Maximum temperature at conductor :	+90 deg C
Environment :	suitable for use in dry & damp areas

Electrical properties

Nominal voltage :	600/1000 V
Test Voltage :	4000 V
Conductor resistance :	In accordance with IEC 228 class 6
Insulation resistance :	> 20 MOhms x km

Additional information

Minimum bending radius :	6 x Outside diameter
Tensile strength :	up to 25 N/mm ² of copper cross section
Operating Speed :	Horizontal Reeling - 180 m/min
	Vertical Reeling - 120 m/min
	(please enquire for higher operating speeds)
Oil resistance :	According to VDE 0472 part 803 test type B
Flame resistance :	According to VDE 0482 P 265-2-1

Applied Standards

	DIN VDE 0250



- ① Copper conductor
- ② Polyester based Insulation
- ③ Textile support braid
- ④ Outer sheath

TROMMELFLEX PUR-HF

PUR Drum reeling cable, Halogen Free

Part No	Cross Section mm ²	Current Rating @ 30 Deg	CPU Number kg/km	Conductor Resistance Max Ohms/km	Outer Diameter approx. (mm)	Weight kg/km	Breaking Load susp. Unit (N)
08042 0150 04 TR	4 G 1.5	23A	58.0	13.3	10.6	155	1340
08042 0150 05 TR	5 G 1.5	23A	81.0	13.3	11.2	178	1690
08042 0150 07 TR	7 G 1.5	23A	115.0	13.3	12.8	218	2150
08042 0150 12 TR	12 G 1.5	23A	196.0	13.3	16.2	363	2600
08042 0150 18 TR	18 G 1.5	23A	271.0	13.3	17.2	459	2600
08042 0150 24 TR	24 G 1.5	23A	392.0	13.3	19.8	590	2800
08042 0150 30 TR	30 G 1.5	23A	450.0	13.3	21.8	720	2900
08042 0150 42 TR	42 G 1.5	23A	633.0	13.3	28.5	980	2900
08042 0250 04 TR	4 G 2.5	30A	99.0	7.98	11.7	208	1345
08042 0250 05 TR	5 G 2.5	30A	125.0	7.98	12.4	230	2100
08042 0250 07 TR	7 G 2.5	30A	180.0	7.98	14.0	315	2550
08042 0250 12 TR	12 G 2.5	30A	308.0	7.98	19.4	485	2900
08042 0250 18 TR	18 G 2.5	30A	451.0	7.98	19.5	679	3450
08042 0250 24 TR	24 G 2.5	30A	616.0	7.98	22.4	860	3200
08042 0250 30 TR	30 G 2.5	30A	771.0	7.98	25.4	1080	4200
08042 0400 04 TR	4 G 4	41A	160.0	4.95	12.9	281	1690
08042 0400 05 TR	5 G 4	41A	200.0	4.95	13.8	318	2500
08042 0600 04 TR	4 G 6	53A	241.0	3.3	14.1	372	1860
08042 0600 05 TR	5 G 6	53A	317.0	3.3	16.6	435	3000
08042 1000 04 TR	4 G 10	74A	404.0	1.91	18.0	615	2300
08042 1000 05 TR	5 G 10	74A	528.0	1.91	19.5	714	3000
08042 1600 04 TR	4 G 16	99A	645.0	1.21	21.0	924	2800
08042 1600 05 TR	5 G 16	99A	816.0	1.21	23.0	1067	3000

Continued over

We reserve the right to amend all technical details without prior notification

TROMMELFLEX PUR-HF

PUR Drum reeling cable, Halogen Free

Part No	Cross Section mm ²	Current Rating @ 30 Deg	CPU Number kg/km	Conductor Resistance Max Ohms/km	Outer diameter approx. (mm)	Weight kg/km	Breaking Load susp. Unit (N)
08042 2500 04 TR	4 G 25	131A	1005.0	0.78	24.2	1222	3300
08042 3500 04 TR	4 G 35	162A	1417.0	0.554	28.6	1778	3300
08042 5000 04 TR	4 G 50	202A	2024.0	0.386	34.1	2650	3800
08042 7000 04 TR	4 G 70	250A	2833.0	0.272	41.6	3380	4500
08042 9500 04 TR	4 G 95	301A	3845.0	0.204	49.2	4695	-
08042 1200 04 TR	4 G 120	352A	4857.0	0.162	54.3	5565	-
08042 1500 04 TR	4 G 150	404A	6011.0	0.105	58.9	6933	-

TROMMELFLEX PUR-HF

PUR Drum reeling cable, Halogen Free, with Screened Elements

Part No	Cross Section mm ²	Current Rating @ 30 Deg	CPU Number kg/km	Outer dia. approx. (mm)	Weight kg/km	Breaking Load susp. Unit (N)
08042 1600 04 TR-X	4 G 16 + 2 x (4 x 1.5)C	99A	840.0	25.3	1200	2110
08042 0400 05 TR-X	5 G 4 + 10 x 2.5	41A	444.0	21.9	700	400
08042 0250 19 TR-X	19 G 2.5 + 5 x 1.5C	30A	563.0	23.8	850	2900
08042 0250 25 TR-X	25 G 2.5 + 5 x 1.5C	30A	635.0	23.4	704	2900
08042 0100 06C TR	3 x (2 x 1)C	17A	125.0	17.0	420	1200
08042 0250 06 TR-X	3 x (2 x 2.5) + 2x(2 x 1.5C)	30A	285.0	22.5	650	5000
08042 0250 12 TR-X	6 x (2 x 2.5) + 2x(2 x 1.5C)	30A	483.0	29.7	1033	5000
08042 0250 48 TR	8 x 6 G 2.5	30A	1152.0	43.5	2485	4000

Current carrying capacity @ 30 deg C (acc. To DIN VDE 0298 Part 4)

Cross Section mm ²	Laid Straight	Suspended in Free Air	Reeled 1 Layer	Reeled 2 Layers	Reeled 3 Layers	Reeled 4 Layers
1.5	23A	24A	18A	14A	11A	10A
2.5	30A	32A	24A	18A	15A	13A
4	41A	43A	33A	25A	20A	17A
6	53A	56A	42A	32A	26A	22A
10	74A	78A	59A	45A	36A	31A
16	99A	104A	79A	60A	49A	42A
25	131A	138A	105A	80A	64A	55A
35	162A	170A	130A	99A	79A	68A
50	202A	212A	162A	123A	99A	85A
70	250A	263A	200A	153A	123A	105A
90	301A	316A	214A	184A	147A	126A
120	352A	370A	282A	215A	172A	148A
150	404A	424A	323A	246A	198A	170A
185	461A	484A	369A	281A	226A	194A