

REELTEC PUR-HF

PUR Drum reeling cable, Halogen Free



Application

Reeltec 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
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 :	Reeltec 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/mm2 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
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- ① Copper conductor
- ② Polyester based Insulation
- ③ Textile support braid
- ④ Outer sheath

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Part No	Cross Section mm ²	Current Rating @ 30 Deg	CPU Number kg/km	Outer Diameter ap- prox. (mm)	Weight kg/km
08042 0100 02 x 3 Reel	3 x (2x1) C	16A	125	16.1 x 17.0	420
08042 0100 02 x 6 Reel	6 x (2x1) C	16A	265	21.3 x 22.7	600
08042 0150 04 Reel	4 G 1.5	23A	61.0	10.0 x 11.2	150
08042 0150 05 Reel	5 G 1.5	23A	81.0	10.6 x 11.7	170
08042 0150 07 Reel	7 G 1.5	23A	115.0	12.0 x 13.2	220
08042 0150 12 Reel	12 G 1.5	23A	196.0	15.5 x 16.7	360
08042 0150 18 Reel	18 G 1.5	23A	271.0	16.9 x 18.2	470
08042 0150 24 Reel	24 G 1.5	23A	392.0	19.0 x 20.2	600
08042 0150 30 Reel	30 G 1.5	23A	450.0	21.1 x 22.5	740
08042 0150 42 Reel	42 G 1.5	23A	633.0	25.0 x 28.0	920
08042 0250 04 Reel	4 G 2.5	30A	99.0	11.1 x 12.2	200
08042 0250 05 Reel	5 G 2.5	30A	125.0	11.8 x 13.0	220
08042 0250 07 Reel	7 G 2.5	30A	180.0	13.5 x 14.7	310
08042 0250 12 Reel	12 G 2.5	30A	308.0	18.9 x 20.1	550
08042 0250 18 Reel	18 G 2.5	30A	451.0	19.2 x 20.4	670
08042 0250 24 Reel	24 G 2.5	30A	616.0	21.5 x 22.9	870
08042 0250 30 Reel	30 G 2.5	30A	771.0	24.4 x 26.0	1090
08042 0250 36 Reel	36 G 2.5	30A	930.0	27.4 x 29.0	1400
08042 0400 04 Reel	4 G 4	41A	160.0	12.3 x 13.5	280
08042 0400 14 Reel	14 G 4	41A	616.0	22.7 x 25.3	919
08042 0600 04 Reel	4 G 6	53A	241.0	14.1 x 15.2	370
08042 0600 05 Reel	5 G 6	53A	317.0	16.4 x 17.6	480
08042 1000 04 Reel	4 G 10	74A	404.0	17.4 x 18.6	600
08042 1000 05 Reel	5 G 10	74A	528.0	18.7 x 19.8	720
08042 1600 04 Reel	4 G 16	99A	645.0	20.0 x 21.4	850
08042 1600 05 Reel	5 G 16	99A	816.0	21.7 x 23.0	1030
08042 2500 04 Reel	4 G 25	131A	1005.0	23.5 x 24.9	1230
08042 3500 04 Reel	4 G 35	162A	1417.0	28.5 x 30.2	1760

Continued over

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

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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
08042 0600 04 C Reel-X	4 G 6 + 4 x (2 x 1.5)C	53A	525.0	23.1 - 24.5	870
08042 1600 04 C Reel-X	4 G 16 + 2 x (4 x 1.5)C	99A	840.0	24.7 - 26.3	1140
08042 2500 04 C Reel-X	4 G 25 + 2 x (6 x 1.5)C	131A	1190.0	30.3 - 34.3	1780
08042 3500 04 C Reel-X	4 G 35 + 2 x (4 x 1.5)C	162A	1635.0	31.5 - 33.5	1950
08042 0400 05 C Reel	5 G 4 + 10 x 2.5	41A	478.0	19.0 - 21.0	660
08042 0250 19 C Reel-X	19 G 2.5 + 5 x 1.5 (C)	30A	563.0	21.8 - 23.3	850
08042 0150 25 C Reel-X	25 G 1.5 + 5 x 1.5 (C)	23A	635.0	21.5 - 22.9	710
08042 0150 25 + 10 C Reel	25 G 1.5 + 10 x (2 x 1) C	23A	960.0	32.0 - 34.0	1175
08042 0600 08 C Reel-X	8 G 6 x 2.5	53A	1152.0	42.2 - 45.2	2393

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