

# Fast, flexible and safe.

TROMMELFLEX-M-PUR reeling cables – a perfect hit.



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Group

Linking  
the Future

# TROMMELFLEX-M-PUR reeling cables – a perfect hit.

Our new low voltage 0.6/1 kV reeling cable is exceptionally well suited for frequently changing dynamic loads in underground mining operations, with a reeling speed of 60 m/min. TROMMELFLEX-M-PUR is highly flexible and lightweight. In addition, the cable is equipped with flame retardant and halogen-free polyurethane sheaths, a necessity in the underground environment. Touché!

## TROMMELFLEX-M-PUR

### Application

TROMMELFLEX-M-PUR is the new 0.6/1 kV reeling cable for underground mining and tunnelling equipment. It is specially designed for frequently changing dynamic loads such as reeling operations including drilling machines, scoops and LHD's.



## MAIN FEATURES

- ✓ Suitable for underground reeling operations at the high speed of 60 m/min.
- ✓ Equipped with flame retardant, halogen-free polyurethane inner and outer sheath for rough environments
- ✓ Highly flexible and lightweight
- ✓ Very short length of lay for greater reeling performances

TROMMELFLEX-M-PUR D2X11Y 0.6/1 kV										
Number of cores x cross section	Part number	Conductor diameter max. mm	Outer diameter		Bending radius free moving min. mm	Weight (approx.) kg/km	Permissible tensile force max. N	Conductor resistance at 20 °C max. Ω/km	Current carrying capacity* A	Short circuit current (conductor) kA
			min. mm	max. mm						
3x25+3G6+2x1	20335531	6.2	22.5	24	192	1130	1500	0.7839	121	3.58
3x35+3G6+2x1.5	20335532	7.8	26.5	28	224	1530	2100	0.554	150	5.01
3X50+3G10+2X1.5	20333885	9.6	30	32	256	2160	3000	0.386	183	7.15
3x70+3G16+2x1.5	20335533	11.1	35	37	296	3050	4200	0.272	234	10.01
3x95+3G16+2x1.5	20335534	12.6	39.5	42	336	3690	5700	0.206	284	13.59
3x120+3G25+2x1.5	20335535	14.8	44	46.5	372	4810	7200	0.161	330	17.16
3x150+3G25+2x1.5	20335536	16	49	52	416	5960	9000	0.129	380	21.45
3x185+3G35+2x1.5	20335537	17.7	53.5	56	448	7300	11100	0.106	434	26.46
3x240+3G50+2x1.5	20335538	20.2	61.5	64.5	516	9600	14400	0.0801	512	34.32

\* Nominal current carrying capacity for three-core cable laid on a surface, at 30 °C ambient temperature (see also IEC 60364-5-52).

TROMMELFLEX-M-PUR D2X11Y 0.6/1 kV	
Global data	
Brand	TROMMELFLEX-M-PUR
Type designation	D2X11Y
Design features	
Conductor	Bare electrolytic copper, finely stranded class 5 acc. to IEC 60228
Insulation	Cross linked polyethylene (XLPE), acc. to IEC 60502-1
Core identification	Main cores: brown, black, grey Control cores: blue, white
Core arrangement	Three main conductors laid-up together with split earth conductor and control cores in the interstices. Cores twisted with very short length of lay
Inner sheath	Polyurethane, halogen free, flame retardant, colour: white
Outer sheath	Polyurethane, halogen free, flame retardant, colour: yellow
Electrical parameters	
Rated voltage	0.6/1 kV (600/1000V)
Max. permissible operating voltage AC	0.7/1.2 kV
Max. permissible operating voltage DC	0.9/1.8
AC test voltage – main cores	2.5 kV (5 min.)

TROMMELFLEX-M-PUR D2X11Y 0.6/1 kV	
AC test voltage – control cores	1 kV
Current carrying capacity description	Acc. to DIN VDE 0298-4
Chemical parameters	
Performance against fire	Similar to IEC 60332-1-2
Water resistance	The cables are suitable for permanent use in water (no drinking water) up to 10 meter diving depth
Thermal parameters	
Max. operating temperature of the conductor	90 °C
Max. short circuit temperature of the conductor	250 °C
Ambient temperature for fixed installation	min. -40 °C, max. +80 °C
Ambient temperature in fully flexible operation	min. -30 °C, max. +80 °C
Mechanical parameters	
Max. tensile load on the conductor	20 N/mm <sup>2</sup>
Torsional stress +/-	50 °/m
Bending radii min.	8 x D in reeling application
Travel speed	Reeling operation underground: 60 m/min. (for speed beyond please consult the manufacturer)



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