



### Cable Type

**ROCKFLEX-PUR - 0.6/1kV**  
**Halogen Free outer sheath**

### Main Application

Power supply to mobile equipment with high risk of mechanical damage in mining and tunneling. Cable is suitable for application where it is deflected in one plane only. Maximum speed 60 m/min

### Construction

#### Phases Cores

**Conductors** Plain copper, flexible class 5 IEC 60228

**Insulation** XLPE special compound Brown - Black - Grey

#### Earth Cores

**Conductors** Plain copper, flexible class 5 IEC 60228

**Insulation** XLPE special compound colour: yellow/green

#### Control cores

**Conductors** Tinned copper, flexible class 6 according to IEC 60228

**Insulation** Thin thickness made of special technopolymer colour : white - blu

**Cable construction** Phase cores laid up with earth cores in the interstices . 2 control conductors in over-interstitial areas

**Binder** Non hygroscopic synthetic tape (if required by manufacturer)

**Bedding** Special flexible technopolymer compound

**Outer sheath** Polyurethane special compound abrasion and tear resistant, excellent hydrolysis resistant. YELLOW RAL 1018 colour type

**Marking** Rockflex PUR 0,6/1 kV 3x70+3G16+2x1x1,5 mm<sup>2</sup> month/year CE (+ metric) (marking Inkjet printed)

### Parameters

Electrical	<b>Rated voltage</b>	U <sub>0</sub> /U = 0,6/1 kV
	<b>Maximum permissible operating voltage in AC systems</b>	U <sub>m</sub> = 1,2 kV
	<b>AC test voltage over 5 minutes</b>	3,5 kV
	<b>Current Carrying Capacity</b>	According to DIN VDE 0298 part 4
Thermal	<b>Fully flexible operation</b>	-20° C
	<b>Fixed installation</b>	-30° C
	<b>Maximum permissible operating temperature of the conductor</b>	90° C
	<b>Short circuit temperature of the conductor</b>	250° C
Mechanical	<b>Tensile load</b>	Up to 20 N/mm <sup>2</sup>
	<b>Minimum bending radii</b>	6 OD
	<b>Reeling operation</b>	Up to 60 m/min
Chemical	<b>Outer sheath performance</b>	Halogen free
	<b>Finished cable</b>	Flame retardant - IEC 60332-1-2

TECHNICAL DATA

Number of cores and nominal cross section	Main conductors copper	Protective earth cond. copper	Control conductors insulated	Overall diameter		Net weight	Bending radius minimum value		Maximum permissible tensile force		Current carrying capacity at 30 °C			Short circuit current - 1sec.
				min.	max.		fixed	reeling	Static	Dynamic	Spiral or			
n x mm <sup>2</sup>	nom. diam.	nom. diam.	nom. diam.	min.	max.	approx.	mm	mm	N	N	laid straight	1 layer	2 layer	90 ° to 250 °C
4G16(*)	5,1	5,1	N.A.	20,0	22,0	870	132	176	960	1280	A	A	A	kA
3x25+3G6+2x1x1(*)	6,5	3,0	2,3	22,5	24,0	1150	144	192	1125	1500	131	105	80	2,29
3x35+3G6+2x1x1.5	7,5	3,0	2,6	26,0	28,0	1550	168	224	1575	2100	162	130	99	3,58
3x50+3G10+2x1x1.5	9,1	3,9	2,6	29,5	32,0	2150	192	256	2250	3000	202	162	123	5,01
3x70+3G16+2x1x1.5	10,8	5,1	2,6	34,0	37,0	3000	222	296	3150	4200	250	200	153	7,15
3x95+3G16+2x1x1.5	12,1	5,1	2,6	37,5	40,5	3650	243	324	4275	5700	301	241	184	10,01
3x120+3G25+2x1x1.5	14,3	6,5	2,6	42,0	45,0	4800	270	360	5400	7200	352	282	215	13,59
3x150+3G25+2x1x1.5	16,1	6,5	2,6	47,5	50,5	5850	303	404	6750	9000	404	323	246	17,16
3x185+3G35+2x1x1.5	17,5	7,5	2,6	52,0	55,0	7150	330	440	8325	11100	461	369	281	21,45
3x240+3G50+2x1x1.5	19,9	9,1	2,6	58,0	61,0	9250	366	488	10800	14400	540	432	329	26,46

Correction factors for ambient temperature other than 30 °C						
°C	20	25	35	40	45	50
K	1,1	1,05	0,95	0,89	0,84	0,77

