

OnG1 FLEX 0,6/1 kV 4- i 5- cores



Mining power cables for mobile and portable power devices with insulation and sheath made of flexible polymer material, unshielded. Rated voltage 0,6/1kV					
According to	ZN-FKR-019:2007/A1:2015; PN-EN 60332-1-2:2010/A1:2016-02				
CONSTRUCTION					
Conductor	Tinned, annealed multi-wire cooper class 5 flexible conductor according to PN-EN 60228.				
Insulation	Polymer material with properties corresponding to the IZ type material according to PN-89/E-29100				
Core filler	Polymer material with properties corresponding to the IZ type material according to PN-89/E-29100				
Sheath	Polymer material with flame retarding and oil proof properties corresponding to type ON4 material according to PN-E-90140:1986				
Cable core	4 – cores: cable consists of 3 power cores and 1 corrugated protective conductor all stranded around central filler piece. 5 – cores: cable consists of 3 power cores, 1 corrugated protective conductor and 1 auxiliary core all stranded around central filler piece				
Sheath colour	Black				
Insulation colour	4 - cores: power cores: green, red, natural (white) protective conductor: black, corrugated 5 - cores: power cores: green, red, natural (white) protective conductor: black, corrugated auxiliary core: brown				
CHARACTERISTIC					
Rated voltage Uo/U		0,6/1 kV			
Test voltage for power conductors		3,2 kV			
Test voltage for auxiliary conductors		2 kV			
Maximum core temperature during operation		+90 °C			
Maximum core temperature during short circuit		+250 °C			
Ambient temperature for permanently installed cables		od -40°C do +90°C			
Ambient temperature for mobile connections		-25°C do +80°C			
Minimum bending radius		Fixed installation – 6D; Mobile connections – 10D			
Cable name explanation	OnG1 FLEX – Sheathed (O) mining (G) power cable with flexible multi-wire tinned copper conductor, insulation made of elastomeric material, shaeth made of flame retardant polymer material (n), cores twisted around the filler (1) and with an increased flexibility (FLEX)				
Cable marking	OnG1 FLEX 0,6/1kV 3x2,5+2,5mm² ROGUM KABLE Sp. z o.o. + cable ID + length + year of production Each cable has a legible and permanent marking repeated cyclically, printed or embossed (for cables with power conductors size equal or greater than 25 mm²) longitudinally on outer sheath including in particular: manufacturer's name, cable / wire type, cross-section, number of wires, rated voltage, identifier, year of production and the length of the delivered section				

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APPLICATION

Cables designed for powering fixed and portable power devices operating in open pit and underground mines in the fields of non-methane and in excavations classified as "a" "b" or "c" methane explosion class and "A" or "B" coal dust explosion.

CERTIFICATES AND APPROVALS

EMAG certificate (Łukasiewicz Research Network – Institute of Innovative Technologies)

ADDITIONAL INFORMATION

On request there is a possibility:

• to change the color of the sheath

In all cases concerning detailed technical data please contact our Client Advisor: doradztwotechniczne@rogum.com.pl

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CABLE CONSTRUCTION					
Total number of cores	Number of cores and cross- sectional area Power cores + Protective conductor + Auxiliary cores	Maximum cable diameter	Approximated cable weight		
n	n x mm²	mm	kg/km		
	3x2,5+2,5	19,6	310		
	3x4+4	21,9	420		
	3x6+6	25,8	590		
	3x10+10	30,5	860		
	3x16+10	37,0	1200		
	3x16+16	37,0	1250		
	3x25+16	44,5	1750		
	3x25+25	44,5	1850		
	3x35+16	46,6	2160		
4	3x35+25	46,6	2250		
	3x35+35	46,6	2350		
	3x50+25	52,6	3000		
	3x50+50	52,6	3250		
	3x70+25	58,6	3650		
	3x70+70	58,6	4100		
	3x95+95	65,0	5300		
	3x120+120	68,5	6300		
	3x150+150	72,0	8600		
	3x185+185	80,0	9400		
5	3x2,5+2,5+2,5	19,9	350		
	3x4+4+4	22,3	500		
	3x6+6+6	26,4	675		
	3x10+10+6	31,6	1000		
	3x16+10+6	40,2	1350		
	3x25+16+10	48,0	2000		



PARAMETERS					
Nominal cross- section of the power conductor	Highest core resistance at 20 °C	Current carrying capacity at ambient temperature at 25 °C			
mm²	Ω/km	Α			
1,5	13,7	28			
2,5	8,21	31			
4	5,09	42			
6	3,39	54			