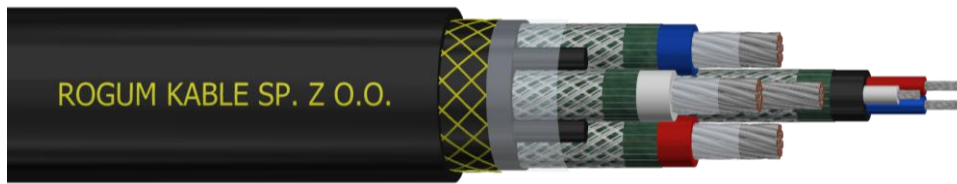


OnZGcekż-GW (A), OnZGcekż-G (A) FLEX 0,6/1 kV



Mining power cables for mobile and portable power devices, shielded, rated voltage 0,6/1 kV

According to ZN-FKR-020:2008/A6:2020; PN-EN 60332-1-2:2010

CONSTRUCTION

Conductor	Annealed multi-stranded tinned copper, class 5 flexible conductor according to PN-EN 60228
Insulation	Heat resistant polymer material with properties corresponding to IEP type material according to PN-89/E-29100
Auxiliary cores sheath	Heat resistant polymer material with properties corresponding to IEP type material according to PN-89/E-29100
Shield	Power cores shielded individually, auxiliary cores shielded by a common screen, shield made of a layer of conductive tape and a braid made of synthetic threads and tinned copper wires, with an opacity of at least 30%
Protective conductor	Non-insulated protective conductor placed between power cores.
Uszczelnienie	Water absorbing, swelling tape, wrapped around whole core length with a thickness of at least 5 mm after swelling (applies only to OnZGcekż-GW (A))
Reinforcement	Reinforcement made of braided aramid fiber with tensile stress resistance of at least 40kN, embedded between inner and outer layer of the sheath
Cable core	Cable core consists of individually shielded power cores and 3 or 6 auxiliary cores stranded together in common sheath and shield. All cores stranded around non-insulated tinned copper protective conductor, remaining in contact with shields along the entire length of the cable.
Sheath	Polymer material with flame retarding and oil-proof properties corresponding to material type ON4 according to PN-E-90140:1986 Double layered sheath with braided aramid fibre reinforcement
Sheath colour	Black
Insulation colour	Power cores: blue, natural, red 3 auxiliary cores: blue, natural, red 6 auxiliary cores: 2 blue, 2 natural, 2 red

CHARACTERISTIC

Rated voltage Uo/U	0,6/1 kV
Test voltage for power cores	3,2 kV
Test voltage for auxiliary cores	2 kV
Maximum core temperature during operation	+90 °C
Maximum core temperature during short circuit	+250 °C
Ambient temperature range for permanently installed cables	-40°C to +90°C
Ambient temperature range for mobile connections	-25°C to +80°C
Minimum bending radius	Fixed installation – 3D; Mobile connections – 4D

Cable name explanation	OnGcekż-GW FLEX – Sheathed (O) power cable with heatproof insulation (Gc), sheath made of elastomeric flame retardant material (n), shielded cores (ekż), designed for mining applications (G), waterproof (W), braided aramide fiber reinforcement (A) and increased flexibility (FLEX)		
Cable marking	OnZGcekż-GW (A) FLEX 0,6/1kV 3x50+25+3x4 mm ² ROGUM KABLE Sp. z o.o. + cable ID + meter mark + year of production Each cable has a legible and permanent marking repeated cyclically, printed or embossed (in case of power cores with diameter equal or greater than 25 mm ²) 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.		
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: <ul style="list-style-type: none"> change the colour of the sheath In all cases concerning detailed technical data please contact our Client Advisor: doradztwotechniczne@rogum.com.pl			
CARD NUMBER	18	EDITION	21.03.2023

NUMBER OF CORES			
Total number of cores	Core type		
	Power cores	Protective conductor	Auxiliary cores
n	n	n	n
7	3	1	3
10	3	1	6

CABLE CONSTRUCTION			
Total number of cores	Number of cores and cross-sectional area	Maximum cable diameter	Approximated cable weight
	Power cores+ protective conductor+ auxiliary cores		
n	n x mm²	mm	kg/km
7	3x35+16+3x2,5	46,0	2500
	3x50+25+3x4	51,8	3200
	3x70+35+3x4	58,8	4000
10	3x35+16+6x2,5	46,0	2500
	3x50+25+6x2,5	51,8	3300
	3x50+25+6x4	51,8	3400
	3x70+35+6x4	58,8	4200
	3x95+35+6x4	64,0	5300
	3x150+50+6x4		

** cross-sectional area of protective conductor is based on total cross-sectional area of protective conductor and shields*



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	A
35	0,565	187
50	0,393	233
70	0,277	288
95	0,210	345