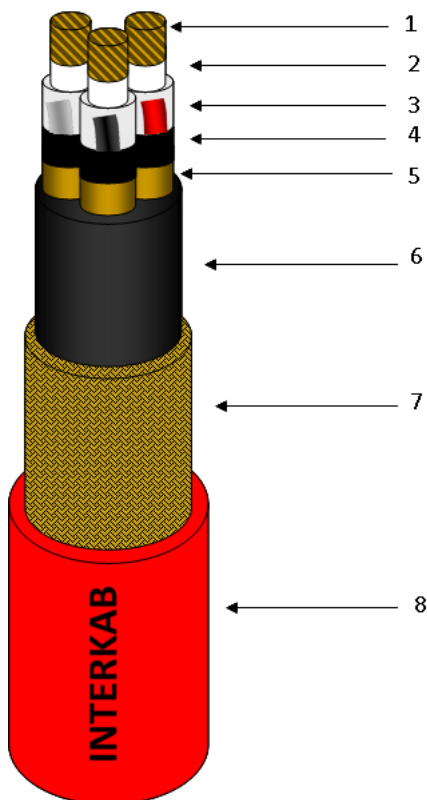


6/10 kV
Fire Resistant

Medium Voltage Power Cables to NEK 606 Specification

BFOU - Power/Control Cables –
Multi Core, Medium Power, armoured cables



Note: picture is for illustration purposes only

Applicable Standards

NEK 606
IEC 60092-354
IEC 60331
IEC 60332 part 3 (Category A)
IEC 60332-1
IEC 60754-1
IEC 61034
Stranded class 2 or tinned
annealed copper conductors to IEC60228

Application

Fixed installation for medium voltage (MV) power in both EX and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids. Meets the MUD resistance requirement in NEK TS 606:2009

Conductor Identification

The individual cores shall be identified by the coloured semi-conducting tape or coloured ribbon tape run longitudinally on the non-metallic part of insulation screening and the colour scheme shall be as follows:
3 Cores: Off-White (grey), Black and Red

New harmonised core colours or project specified colours can be supplied upon special request.

Construction	Specifications
(1) Conductor:	Tinned, annealed stranded compacted copper conductor to IEC60228 Class 2 (Flexible Class 5 conductors available upon request)
(2) Fire Protection:	Mica Glass Tape
(3) Insulation:	EP-Rubber
(4) Insulation Screen:	Semi-conductive tape or extruded semi-conductive compound.
(5) Metallic Screen:	Tinned copper wire braid (If necessary, suitable tape may be applied on the braid)
(6) Bedding:	Flame retardant halogen free compound. PET Tape
(7) Armour:	Tinned copper wire braid. PET Tape
(8) Outer Sheath:	SHF2 thermoset compound halogen-free & MUD resistant low temperature (-40 Deg C) Red Outer Sheath Colour

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BFOU Multi Core Armoured Cables

No. of Cores	Conductor			Thickness of Insulation	Thickness of inner covering	Nominal dia. Inner covering	Dia. Of wire for armour	Thickness of sheath	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Current Carrying Capacity (Max.) (at 45°C)	Cable Weight
	Nominal Area	Strand	Dia.						Nominal	Tolerance					
No.	mm ²	NO./ mm	mm	mm	mm	mm	mm	mm	±mm	Ω / km	MΩ-km	V/5min.	A	kg/km	
3	25	7 / 2.14	6.42	3.4	1.4	46.8	0.4	2.8	55.6	2.7	0.734	1,150	21.5	80	4,860
3	35	7 / 2.52	7.56	3.4	1.6	49.6	0.4	2.9	58.6	2.8	0.529	1,020	21.5	99	5,570
3	50	19 / 1.78	8.90	3.4	1.6	52.6	0.4	3.0	61.8	3.0	0.391	900	21.5	123	6,390
3	70	19 / 2.14	10.70	3.4	1.6	56.5	0.4	3.1	66.0	3.1	0.270	780	21.5	152	7,650
3	95	19 / 2.52	12.60	3.4	1.6	60.6	0.4	3.3	70.5	3.3	0.195	690	21.5	185	9,160
3	120	37 / 2.03	14.21	3.4	1.8	64.5	0.4	3.5	74.8	3.5	0.154	620	21.5	213	10,640
3	150	37 / 2.25	15.75	3.4	1.8	67.7	0.4	3.6	78.3	3.6	0.126	570	21.5	245	12,080
3	185	37 / 2.52	17.64	3.4	1.8	71.8	0.4	3.8	82.8	3.8	0.100	520	21.5	280	14,030
3	240	61 / 2.25	20.25	3.4	1.8	77.9	0.4	4.0	89.4	4.1	0.0762	460	21.5	329	17,140
3	300	61 / 2.52	22.68	3.4	1.8	83.1	0.4	4.2	95.0	4.3	0.0607	420	21.5	379	20,160