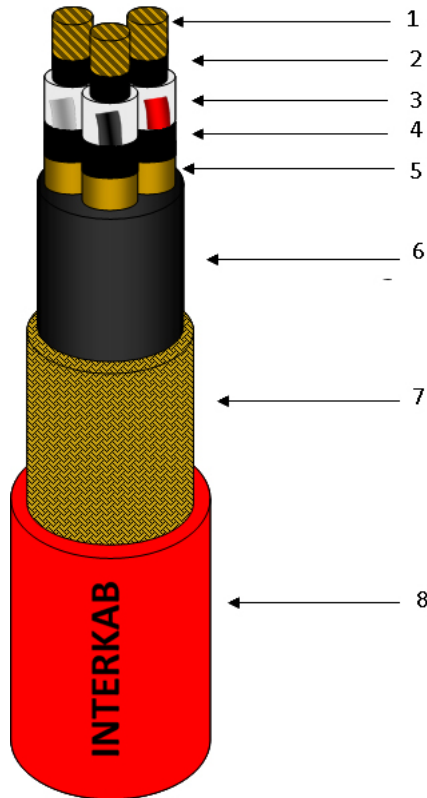


8.7/15kV  
Flame Retardant

## Medium Voltage Power Cables to NEK606 Specification

RFOU Power Cables, Multi  
Core, Armoured Cables:



### Applicable Standards

NEK 606  
IEC 60092-354  
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.

Note: picture is for illustration purposes only

Construction	Specifications
(1) Conductor:	Tinned, annealed stranded compacted copper conductor to IEC60228 Class 2 (Flexible Class 5 conductors available upon request)
(2) Conductor Screen:	Semi-conductive tape or extruded semi-conductive compound.
(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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### RFOU 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 <sup>2</sup>	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	4.5	1.4	45.8	0.4	2.7	53.8	2.7	0.734	1,400	30.5	85	4,520
3	35	7 /	2.52	7.56	4.5	1.6	48.8	0.4	2.8	57.0	2.8	0.529	1,250	30.5	105	5,180
3	50	19 /	1.78	8.90	4.5	1.6	51.6	0.4	2.9	60.0	2.9	0.391	1,110	30.5	130	5,890
3	70	19 /	2.14	10.70	4.5	1.6	55.5	0.4	3.1	64.3	3.1	0.270	970	30.5	161	7,030
3	95	19 /	2.52	12.60	4.5	1.6	59.5	0.4	3.3	68.7	3.2	0.195	860	30.5	195	8,330
3	120	37 /	2.03	14.21	4.5	1.6	63.0	0.4	3.4	72.4	3.4	0.154	780	30.5	225	9,530
3	150	37 /	2.25	15.75	4.5	1.8	66.8	0.4	3.6	76.6	3.6	0.126	720	30.5	258	10,890
3	185	37 /	2.52	17.64	4.5	1.8	70.7	0.4	3.7	80.7	3.7	0.100	660	30.5	295	12,520