RFOU 12/20(24)kV

Flame retardant halogen-free medium voltage (MV) cable, Mud resistant

Technical Data

Application

Fixed installation for medium voltage (MV) power in both Exand 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.

Construction

1.Conductor
-Tinned annealed stranded circular copper (STCC), IEC 60228 class 2

2.Conductor screen semiconductive
-Semiconductive layer (EP-rubber)

3.Insulation
-EP-rubber, IEC 60092-351 (EPR)

4.Insulation screen semicoductive
-Semiconductive layer (EP-rubber)

5.Lay up / Shielding
-Cores are laid up together. Cores are identified by Brown, Black or Grey threads under and over the metallic screen on each conductor.

6.Inner covering
-Flame retardant & HF thermoset compound

7.Tape over inner covering
-PET tape

8.Armour/screen
-Tinned annealed copper wire braid

9.Tape over armour/screen
-PET tape

10.Outer sheath
-Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)

11.Outer sheath colour
-Red

Standards

IEC 60092-354
IEC 60228 class 2
IEC 60092-351
IEC 60092-359
IEC 60332-1
IEC 60332-3-22
IEC 60754-1,2
IEC 61034-1,2

Main Characteristics

-Rated Voltage:	12/20(24) kV
-Operating Temperature:	85°C
-Flame-retardant	
-Halogen-Free	
-NEK TS 606 CodeP19/P21	
-EPR/EPR/TCWB/EVA	

Core Identification

1 core:	Grey (Off-white) + black semi-conductive layer
3 cores:	Grey (Off-white) + black semi-conductive layer identified by White-Black-Red threads under and over the metallic screen on each individual core.
Earth core:	Yellow/green

Marking

E.g. "meter" "year" DRAKA 04 RFOU 12/20(24)KV P19/P21 3 x 95/50mm2 IEC 60332-3-22

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Part Number	No. of cores and cond. area (mm²)	Cond. Ø appr. (mm)	Ø Bending fixed (mm)	Outer sheath Ø (mm)	Weight approx. (kg/km)	Current rating (A)	Resistance at 20°C (ohm/km)
111628	1X 16/13	5,2	46,8	28 ± 1.5	1200	96	1.16
111639	1X 25/13	6,5	58,5	29.5 ± 1.5	1300	127	0.734
111650	1X 35/13	7,4	66,6	31 ± 2	1450	157	0.529
111661	1X 50/15	8,8	79,2	32.5 ± 2	1700	196	0.391
111672	1X 70/13	10,3	92,7	34 ± 2.0	2000	242	0.270
111683	1X 95/17	12,1	108,9	36 ± 2	2400	293	0.195
111694	1X120/15	13,6	122,4	38 ± 2	2650	339	0.154
111705	1X150/15	15,1	135,9	40 ± 2.5	3000	389	0.126
111716	1X185/18	16,8	151,2	41.5 ± 2.5	3500	444	0.100
111727	1X240/23	19,1	171,9	45.0 ± 2.5	4350	522	0.0762
111738	1X300/28	21,5	193,5	47.0 ± 3.0	5200	601	0.0607
111749	3X 16/31	5,2	46,8	55.5 ± 3.0	9300	67	1.16
111760	3X 25/35	6,5	58,5	58.5 ± 3.0	4950	89	0.734
111771	3X 35/35	7,4	66,6	61 ± 3.0	5500	110	0.529
111782	3X 50/35	8,8	79,2	65.5 ± 3.5	6500	137	0.391
111793	3X 70/35	10,3	92,7	68.5 ± 3.5	7500	169	0.270
111804	3X 95/50	12,1	108,9	73.5 ± 4.0	9300	205	0.195
111815	3X120/60	13,6	122,4	77 ± 4.0	10250	237	0.154
111826	3X150/75	15,1	135,9	80.0 ± 4.5	11700	272	0.126
111837	3X 185/45	16,8	151,2	85.0 ± 4.5	12950	311	0.100
111848	3X240/55	19,1	171,9	90.0 ± 4.5	15900	365	0.0762