RU (c) 150/250 (300)V S12

EPR/EVA

Halogen-free, unarmoured, mud resistant and flame retardant instrumentation cable

Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX- (Zone 2) and safe areas. Meets the mud resistant requirements in NEK 606 TS 606:2009.

Construction

Conductor	: Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	: EP-rubber, IEC 60092-360 (EPR)
Pair / Triple / Quad twisting	: Color coded cores twisted together and wrapped with polyester tape. Pairs/Triples are laid up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors.
Inner covering	: No inner covering. (Additional tapes may be applied)
Outer sheath	: Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-360)
Marking text	: E.g. "meter" "year" manufacturer RU(c) 250V S12 2 pair 0,75 mm2, IEC 60092-376 IEC 60332-3-22

Core Identification

Pair	: Black, light blue
Triple	: Black, light blue, brown
Quad	: Black, light blue, brown, grey

Outer Sheath Colours

Available colours	: Grey or blue

Installation recommendations

Min. Bending Radius during Installation	: 8xD
Min. Bending Radius Fix Installed	: 6xD
Max. Conductor Operating Temperature	: 90°C

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Standards applied

IEC 60092-376 (2003-05)	Design
IEC 60228 class 2	Conductor
IEC 60092-360	Insulation
IEC 60092-360	Sheath
IEC 60332-1-2	Flame Retardant
IEC 60332-3-22	Flame Retardant
IEC 60754-1,2	Halogen Free
IEC 61034-1,2	Low Smoke

Range and Dimensions

Article Code	Number of elements	Number of cores in element	Size Cross-Section in mm²	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N20D02P.75BNNGR1	2	2	0.75	10	135
N20D04P.75BNNGR1	4	2	0.75	11.5	195
N20D04P.75BNNBL1	4	2	0.75	11.5	195
N20D08P.75BNNGR1	8	2	0.75	15.5	380
N20D12P.75BNNGR1	12	2	0.75	18	510
N20D16P.75BNNGR1	16	2	0.75	19.5	640
N20D19P.75BNNGR1	19	2	0.75	20.5	730
N20D24P.75BNNGR1	24	2	0.75	24	910
N20D02T.75BXXGR1	2	3	0.75	11	170
N20D04T.75BXXGR1	4	3	0.75	13	265
N20D04T.75BXXBL1	4	3	0.75	13	265
N20D08T.75BXXGR1	8	3	0.75	17.5	490
N20D16T.75BXXGR1	16	3	0.75	22	870
N20D24T.75BXXGR1	24	3	0.75	27	1260
N20D02P1.5BNNGR1	2	2	1.5	12	210
N20D04P1.5BNNGR1	4	2	1.5	14	320
N20D08P1.5BNNGR1	8	2	1.5	19.5	610
N20D12P1.5BNNGR1	12	2	1.5	22.5	850
N20D12P1.5BNNBL1	12	2	1.5	22.5	850
N20D16P1.5BNNGR1	16	2	1.5	24.5	1080
N20D24P1.5BNNGR1	24	2	1.5	30	1550
N20D02T1.5BXXGR1	2	3	1.5	13.5	265
N20D04T1.5BXXGR1	4	3	1.5	16	430
N20D08T1.5BXXGR1	8	3	1.5	21.5	820
N20D12T1.5BXXGR1	12	3	1.5	25.5	1170
N20D16T1.5BXXGR1	16	3	1.5	27.5	1500
N20D24T1.5BXXGR1	24	3	1.5	34	2210

Note: Subject to change without prior notice. Nominal diameter can have a tolerance of -5% or +5%.

Electrical value instrumentation cables

Type	Capacitance, approx. (nF/km)	Inductance, approx, (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Unshielded pair 0,75 mm²	100	0,67	26,3	12,7
Unshielded triple 0,75 mm²	100	0,67	26,3	12,7
Unshielded pair 1,5 mm²	110	0,63	12,9	24,4
Unshielded triple 1,5 mm²	110	0,63	12,9	24,4
Unshielded pair 2,5 mm²	125	0,59	8,02	36,8
Unshielded triple 2,5 mm²	125	0,59	8,02	36,8

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