

RU (i) 150/250 (300)V S11

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.
Lay up / Shielding	: Individually shielded pairs/triples/quads are laid up in concentric layers and wrapped with a PETP tape.
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(i) 250V S11 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
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Installation recommendations

Min. Bending Radius during Installation	: 8xD
Min. Bending Radius Fix Installed	: 6xD
Max. Conductor Operating Temperature	: 90°C
Min. Installation temperature	: -20°C

T : +31 (0)168 468 100

E : sales@incore-cables.com

I : www.incore-cables.com

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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 mm ²	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N21D01P.75BNNGR1	1	2	0.75	6.5	85
N21D02P.75BNNGR1	2	2	0.75	10.0	140
N21D04P.75BNNGR1	4	2	0.75	11.5	235
N21D08P.75BNNGR1	8	2	0.75	15.5	420
N21D12P.75BNNGR1	12	2	0.75	18.5	590
N21D16P.75BNNGR1	16	2	0.75	21.0	760
N21D24P.75BNNGR1	24	2	0.75	25.5	1120
N21D01T.75BNNGR1	1	3	0.75	7.0	95
N21D02T.75BNNGR1	2	3	0.75	11.0	175
N21D04T.75BNNGR1	4	3	0.75	13.0	290
N21D08T.75BNNGR1	8	3	0.75	18.0	540
N21D12T.75BNNGR1	12	3	0.75	21.0	770
N21D16T.75BNNGR1	16	3	0.75	23.5	990
N21D24T.75BNNGR1	24	3	0.75	29	1460
N21D01P1.5BNNGR1	1	2	1.5	8.0	120
N21D02P1.5BNNGR1	2	2	1.5	12.0	215
N21D04P1.5BNNGR1	4	2	1.5	14.5	370
N21D08P1.5BNNGR1	8	2	1.5	20.0	690
N21D12P1.5BNNGR1	12	2	1.5	23.5	970
N21D16P1.5BNNGR1	16	2	1.5	26.5	1260
N21D24P1.5BNNGR1	24	2	1.5	32.5	1880
N21D01T1.5BNNGR1	1	3	1.5	8.5	140
N21D02T1.5BNNGR1	2	3	1.5	14.0	285
N21D04T1.5BNNGR1	4	3	1.5	16.0	470
N21D08T1.5BNNGR1	8	3	1.5	22.5	900
N21D16T1.5BNNGR1	16	3	1.5	30.0	1700
N21D24T1.5BNNGR1	24	3	1.5	37.0	2520

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 mm ²	110	0,67	26,3	12,7
Unshielded triple 0,75 mm ²	110	0,67	26,3	12,7
Unshielded pair 1,5 mm ²	125	0,63	12,9	24,4
Unshielded triple 1,5 mm ²	125	0,63	12,9	24,4
Unshielded pair 2,5 mm ²	145	0,59	8,02	36,8
Unshielded triple 2,5 mm ²	145	0,59	8,02	36,8

NOTICE

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

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