


BU (i) 150/250 (300)V S13

MGT/EPR/EVA

Installation cable for tougher environments



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Application

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

Construction

Conductor	: Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	: Mica-tape + EP-rubber, IEC 60092-360 (EPR)
Pair / Triple / Quad twisting	: Color coded cores twisted together. Pairs/Triples are screened by copper backed polyester tape with tinned copper drain wire. Each pair/triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples. 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
Outer sheath	: Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-360)
Marking text	: E.g. "meter" "year" manufacturer BU(c) 250V S14 8 PAIR 0,75mm ² , 60092-376, IEC 60331-1 or IEC 60331-2, IEC 60331-21, 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

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 60331-1, -2, -21	Fire Resistant
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)
N30D01P.75BNNGR1	1	2	0.75	7.5	95
N30D01P.75BNNBL1	1	2	0.75	7.5	95
N30D02P.75BNNGR1	2	2	0.75	11.0	165
N30D02P.75BNNBL1	2	2	0.75	11.0	165
N30D04P.75BNNGR1	4	2	0.75	13.0	260
N30D08P.75BNNGR1	5	2	0.75	17.5	490
N30D12P.75BNNGR1	12	2	0.75	21.0	700
N30D12P.75BNNBL1	12	2	0.75	21.0	700
N30D16P.75BNNGR1	16	2	0.75	23.5	900
N30D24P.75BNNGR1	24	2	0.75	29.0	1300
N30D01T.75BXXGR1	1	3	0.75	7.5	105
N30D02T.75BXXGR1	2	3	0.75	12.0	200
N30D04T.75BXXGR1	4	3	0.75	14.0	340
N30D08T.75BXXGR1	8	3	0.75	19.5	640
N30D12T.75BXXGR1	12	3	0.75	23.5	900
N30D16T.75BXXGR1	16	3	0.75	26.0	1170
N30D24T.75BXXGR1	24	3	0.75	32.0	1690
N30D01P1.5BNNGR1	1	2	1.50	8.5	13
N30D01P1.5BNNBL1	1	2	1.50	8.5	130
N30D02P1.5BNNGR1	2	2	1.50	13.5	250
N30D02P1.5BNNBL1	2	2	1.50	13.5	250
N30D04P1.5BNNGR1	4	2	1.50	16.0	420
N30D04P1.5BNNBL1	4	2	1.50	16.0	420
N30D08P1.5BNNGR1	5	2	1.50	22.0	770
N30D08P1.5BNNBL1	5	2	1.50	22.0	770
N30D12P1.5BNNGR1	12	2	1.50	26.0	1100
N30D12P1.5BNNBL1	12	2	1.50	26.0	1100
N30D16P1.5BNNGR1	16	2	1.50	29.5	1440
N30D24P1.5BNNGR1	24	2	1.50	36.5	2120
N30D24P1.5BNNBL1	24	2	1.50	36.5	2120
N30D01T1.5BXXGR1	1	3	1.50	9.5	165
N30D01T1.5BXXBL1	1	3	1.50	9.5	165
N30D02T1.5BXXGR1	2	3	1.50	14.5	310
N30D02T1.5BXXGR1	4	3	1.50	17.5	530
N30D08T1.5BXXGR1	8	3	1.50	23.5	1020
N30D12T1.5BXXGR1	12	3	1.50	29.0	1470
N30D16T1.5BXXGR1	16	3	1.50	32.5	1910
N30D24T1.5BXXGR1	24	3	1.50	32.5	2860
N30D01P2.5BNNGR1	1	2	2.50	40.5	170

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

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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

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