

BU (c) 150/250 (300)V S14

MGT/EPR/EVA

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



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 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 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

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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)
N2702P.75BNNGR1	2	2	0.75	10.5	150
N2704P.75BNNGR1	4	2	0.75	12.5	230
N2708P.75BNNGR1	8	2	0.75	17	420
N2712P.75BNNGR1	12	2	0.75	19.5	570
N2716P.75BNNGR1	16	2	0.75	21.5	720
N2719P.75BNNGR1	19	2	0.75	22.5	820
N2724P.75BNNGR1	24	2	0.75	26.5	1040
N2702T.75BXXGR1	2	3	0.75	12	200
N2704T.75BXXGR1	4	3	0.75	14.5	310
N2708T.75BXXGR1	8	3	0.75	19.5	590
N2712T.75BXXGR1	12	3	0.75	22.5	780
N2716T.75BXXGR1	16	3	0.75	24.5	1000
N2724T.75BXXGR1	24	3	0.75	30	1430
N2702P1.5BNNGR1	2	2	1.5	13	225
N2704P1.5BNNGR1	4	2	1.5	15.5	360
N2708P1.5BNNGR1	8	2	1.5	21	660
N2712P1.5BNNGR1	12	2	1.5	24.5	940
N2716P1.5BNNGR1	16	2	1.5	26.5	1200
N2724P1.5BNNGR1	24	2	1.5	33	1770
N2702T1.5BXXGR1	2	3	1.5	15	310
N2704T1.5BXXGR1	4	3	1.5	17.5	500
N2708T1.5BXXGR1	8	3	1.5	23.5	930
N2712T1.5BXXGR1	12	3	1.5	28	1300
N2716T1.5BXXGR1	16	3	1.5	30.5	1670
N2724T1.5BXXGR1	24	3	1.5	37.5	2470
N2702P2.5BNNGR1	2	2	2.5	14.5	295

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	100	0,67	26,3	12,7
Unshielded triple 0,75 mm ²	100	0,67	26,3	12,7
Unshielded pair 1,5 mm ²	110	0,63	12,9	24,4
Unshielded triple 1,5 mm ²	110	0,63	12,9	24,4
Unshielded pair 2,5 mm ²	125	0,59	8,02	36,8
Unshielded triple 2,5 mm ²	125	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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