

BFOU (c) 150/250 (300)V S4 S8

MGT/EPR/EPR/TCWB/EVA

Halogen-free, mud resistant, flame retardant instrumentation cable



Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX (Zone 0, 1 & 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	: Flame retardant and halogen-free thermoplastic compound
Tape over inner covering	: PET tape
Armour	: Tinned annealed copper wire braid
Tape over armour	: PET tape
Outer sheath	: Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC60092-360)
Marking text	: E.g. "meter" "year" manufacturer BFOU(c) 250V S4/S8 4 PAIR 0,75 mm ² IEC 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

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 inner covering, mm	Diameter braid wire, mm	Mechanical cross section of the braid, mm ²	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N28D02P.75BNNGR1	2	2	0.75	10.5	0.3	8.5	14.5	340
N28D02P.75BNNBL1	2	2	0.75	10.5	0.3	8.5	14.5	340
N28D04P.75BNNGR1	4	2	0.75	12.5	0.3	10.2	16	440
N28D04P.75BNNBL1	4	2	0.75	12.5	0.3	10.2	16	440
N28D08P.75BNNGR1	8	2	0.75	16.5	0.3	13.6	20.5	680
N28D08P.75BNNBL1	8	2	0.75	16.5	0.3	13.6	20.5	680
N28D12P.75BNNGR1	12	2	0.75	19.5	0.3	15.3	24	910
N28D12P.75BNNBL1	12	2	0.75	19.5	0.3	15.3	24	910
N28D16P.75BNNGR1	16	2	0.75	22	0.3	17.8	26.5	1180
N28D16P.75BNNBL1	16	2	0.75	22	0.3	17.8	26.5	1180
N28D19P.75BNNGR1	19	2	0.75	23	0.3	20.4	28	1330
N28D24P.75BNNGR1	24	2	0.75	27.5	0.3	22.9	32.5	1700
N28D24P.75BNNBL1	24	2	0.75	27.5	0.3	22.9	32.5	1700
N28D02T.75BXXGR1	2	3	0.75	12	0.3	10.2	15.5	400
N28D02T.75BXXBL1	2	3	0.75	12	0.3	10.2	15.5	400
N28D04T.75BXXGR1	4	3	0.75	14	0.3	11.9	18	540
N28D04T.75BXXBL1	4	3	0.75	14	0.3	11.9	18	540
N28D08T.75BXXGR1	8	3	0.75	18.5	0.3	15.3	23	870
N28D08T.75BXXBL1	8	3	0.75	18.5	0.3	15.3	23	870
N28D12T.75BXXGR1	12	3	0.75	22	0.3	17.8	27	1180
N28D12T.75BXXBL1	12	3	0.75	22	0.3	17.8	27	1180
N28D16T.75BXXGR1	16	3	0.75	25.5	0.3	20.4	30.5	1580
N28D16T.75BXXBL1	16	3	0.75	25.5	0.3	20.4	30.5	1580
N28D24T.75BXXGR1	24	3	0.75	31.5	0.4	36.2	37	2350
N28D02P1.5BNNGR1	2	2	1.5	13	0.3	10.2	16.5	440
N28D02P1.5BNNBL1	2	2	1.5	13	0.3	10.2	16.5	440
N28D04P1.5BNNGR1	4	2	1.5	15	0.3	11.9	19	600
N28D04P1.5BNNBL1	4	2	1.5	15	0.3	11.9	19	600
N28D08P1.5BNNGR1	8	2	1.5	20	0.3	17.8	24.5	990
N28D08P1.5BNNBL1	8	2	1.5	20	0.3	17.8	24.5	990
N28D12P1.5BNNGR1	12	2	1.5	24	0.3	20.4	28.5	1350
N28D12P1.5BNNBL1	12	2	1.5	24	0.3	20.4	28.5	1350
N28D16P1.5BNNGR1	16	2	1.5	27	0.3	22.9	31.5	1750
N28D16P1.5BNNBL1	16	2	1.5	27	0.3	22.9	31.5	1750
N28D24P1.5BNNGR1	24	2	1.5	33.5	0.4	36.2	39.5	2620
N28D24P1.5BNNBL1	24	2	1.5	33.5	0.4	36.2	39.5	2620
N28D02T1.5BXXGR1	2	3	1.5	14.5	0.3	11.9	18.5	540
N28D02T1.5BXXBL1	2	3	1.5	14.5	0.3	11.9	18.5	540

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N28D04T1.5BXXGR1	4	3	1.5	17	0.3	13.6	21	760
N28D04T1.5BXXBL1	4	3	1.5	17	0.3	13.6	21	760
N28D08T1.5BXXGR1	8	3	1.5	22.5	0.3	17.8	27	1270
N28D08T1.5BXXBL1	8	3	1.5	22.5	0.3	17.8	27	1270
N28D12T1.5BXXGR1	12	3	1.5	27	0.3	22.9	32	1750
N28D12T1.5BXXBL1	12	3	1.5	27	0.3	22.9	32	1750
N28D16T1.5BXXGR1	16	3	1.5	31.5	0.4	36.2	37	2540
N28D16T1.5BXXBL1	16	3	1.5	31.5	0.4	36.2	37	2540
N28D24T1.5BXXGR1	24	3	1.5	38.5	0.4	40.7	45	3580
N28D02P2.5BNNGR1	2	2	2.5	14	0.3	11.9	18	530
N28D04P2.5BNNGR1	4	2	2.5	16.5	0.3	13.6	20.5	740
N28D08P2.5BNNGR1	8	2	2.5	22	0.3	17.8	27	1230
N28D12P2.5BNNGR1	12	2	2.5	28	0.3	22.9	32.5	1860
N28D16P2.5BNNGR1	16	2	2.5	33	0.4	31.7	39	2600
N28D24P2.5BNNGR1	24	2	2.5	41	0.4	40.7	47.5	3780
N28D04T2.5BXXGR1	4	3	2.5	18.5	0.3	15.3	23	950
N28D08T2.5BXXGR1	8	3	2.5	25	0.3	20.4	30	1620
N28D16T2.5BXXGR1	16	3	2.5	38.5	0.4	36.2	44.5	3570

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)
Shielded pair 0,75 mm ²	110	0,67	26,3	12,7
Shielded triple 0,75 mm ²	110	0,67	26,3	12,7
Shielded pair 1,5 mm ²	110	0,63	12,9	24,4
Shielded triple 1,5 mm ²	110	0,63	12,9	24,4
Shielded pair 2,5 mm ²	125	0,59	8,02	36,8
Shielded triple 2,5 mm ²	125	0,59	8,02	36,8
Unshielded 16 and 24 triple 2,5 mm ²	95	0.66	8.02	41.1
Unshielded 16 pair 2.5 mm ²	95	0.66	8.02	41.1

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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