RE-2Y(St)Y-fl-TIMF 70° C

CU/PE/ISCR/OSCR/PVC

Instrumentation Cables British Standard 300/500 V

PE insulated, screened, PVC sheathed cable

HALLEY CABLES

Construction:

Conductor	: plain annealed copper wire, 0,50 mm² and 1,0 mm² solid, 0,50 mm² and 0,75 mm² 0,75 mm² flexible or 1,5 mm² stranded.
Insulation	: PE compound.
Core identif.	: black / white / red; with numbered tape under separator tape of the pair screen.
Triple	: two conductors twisted to a pair.
TIMF constr.	: polyester tape above the triple, AL-PES tape over tinned copper drain wire, 0,50 mm².
Lay-up	: TIMF laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: AL-PES tape over tinned copper drain wire 0,50 mm².
Outer sheath	: PVC compound, flame retardant; TM1.
Sheath colour	: RAL 9005, black or RAL 5015, blue.

Technical data and tests:

Rated voltage (U°/U)	: 300/500 V.
Test voltage	: Urms core-core : 1000 V; Urms core-screen : 1000 V.
Temperature range	: operation : - 40° C ~ + 70° C; installation : - 5° C ~ + 50° C.
Min. bending radius	: 6 x D.
Insulation resist. (20° C)	: min. 5000 MΩ/km.
Capacitance unbalanced	: (1 kHz) : max. 250 pF/250 m

Standards:

Design	: BS 5308 Part 1 Type 1.
Conductor	: BS 6360.
Insulation	: BS 6234 Type 03.
Outer sheath	: BS 7655.
Flame retardancy test	: IEC 60332-1 & BS EN 60332-1.

Technical data and tests:

Insulation thickness	: 0,50 mm² : 0,50 mm; 1,0 mm² : 0,60 mm; 0,50 mm² : 0,60 mm; 0,75 mm² : 0,60 mm; 1,50 mm² : 0,60 mm.
Conductor class, BS 6360	: 0,50 mm² : Class 1; 1,0 mm² : Class 1; 0,50 mm² : Class 5; 1,5 mm² : Class 2.
Cond. resistance (20° C)	: 0,50 mm² : 36,8 Ω/km; 1,0 mm² : 18,4 Ω/km; 0,50 mm² : 39,7 Ω/km; 0,75 mm² : 26,5 Ω/km; 1,5 mm² : 12,3 Ω/km.
Mutual capacitance (1 kHz)	: 0,50 mm² : max. 115 pF/m; 0,75 mm² : max. 115 pF/m; 1,0 mm² : max. 115 pF/m; 1,5 mm² : max. 120 pF/m.
L/R (ratio) (max)	: 0,50 mm² : 25 µH/Ω; 0,75 mm² : 25 µH/Ω; 1,0 mm² : 25 µH/Ω; 1,5 mm² : 40 µH/Ω.

Applications:

These cables are used for transmission of analogue and digital signals in instrument and control systems at chemistry and petrochemistry industry plants, power plants, natural gas and petroleum plants, etc... . Instrumentation cables are not allowed for direct connection to a low impedance source, e.g. public mains electricity supply. With blue sheath they are suitable for intrinsically safe systems. These cables are not recommended for direct burial. They are tor indoor and oudoor installation, in dry and wet locations; on racks, trays, in conduits.

IEC CE DVE RoHS PG TSE

www.halleycables.com

RE-2Y(St)Y-fl-TIMF 70° C ~ CU/PE/ISCR/OSCR/PVC

HALLEY CABLES and HALLEY CABLES logo are registered trademarks of HALLEY CABLES SRL.

RE-2Y(St)Y-fl-TIMF 70° C

CU/PE/ISCR/OSCR/PVC

Instrumentation Cables British Standard 300/500V

PE insulated, screened, PVC sheathed cable

HALLEY CABLES

www.halleycables.com

RE-2Y(St)Y-fl-TIMF 70° C ~ CU/PE/ISCR/OSCR/PVC

DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
0,50 mm² (mono/solid)			
2x3x0,50	11,3	53	125
5x3x0,50	14,4	125	245
10x3x0,50	19,8	245	440
15x3x0,50	22,4	265	640
20x3x0,50	25,8	485	850
30x3x0,50	31,3	725	1260
50x3x0,50	40,2	1205	2030
0,50 mm² (flexible)			
2x3x0,50	12,8	53	135
5x3x0,50	16,4	125	260
10x3x0,50	22,5	245	465
15x3x0,50	26,1	265	680
20x3x0,50	29,9	485	980
30x3x0,50	36,2	725	1335
50x3x0,50	46,1	1205	2140
0,75 mm² (flexible)			
2x3x0,75	13,9	72	170
5x3x0,75	17,6	173	335
10x3x0,75	24,9	341	620
15x3x0,75	28,1	509	910
20x3x0,75	32,4	677	1200
30x3x0,75	39,5	1013	1785
50x3x0,75	51,0	1685	2890
1,0 mm² (mono/solid)			
2x3x1	13,6	91	190
5x3x1	17,1	221	380
10x3x1	23,2	437	705
15x3x1	27,4	653	1045
20x3x1	31,5	869	1385
30x3x1	38,4	1301	2060
50x3x1	49,2	2135	3350
1,5 mm² (stranded)			
2x3x1,5	15,4	129	250
5x3x1,5	19,9	317	515
10x3x1,5	28,0	629	990
15x3x1,5	32,6	941	1455
20x3x1,5	37,8	1253	1945
30x3x1,5	45,0	1877	2850
50x3x1,5	57,1	3125	4580

IEC CE VDE RoHS

HALLEY CABLES and HALLEY CABLES logo are registered trademarks of HALLEY CABLES SRL.