HALOGEN-FREE INSTRUMENTATION CABLES, Acc. to BS 5308
PART 1 TYPE 1

RE-2Y(St)H 70°C / 300/500 V

CU/PE/OSCR/LSZH

SİNGLE & MULTİ-TRIPLE, PE INSULATED, COLLECTİVE SCREENED, LSZH SHEATHED

RE-2X(St)H 90°C / 300/500 V

CU/XLPE/OSCR/LSZH

SİNGLE & MULTİ-TRIPLE, XLPE INSULATED, COLLECTİVE SCREENED, LSZH SHEATHED

APPLICATION: These cables are used for transmission of analoge and digital signals in instrument and control systems at chemistry and petrochemistry industry plants, power plants, natural gas and petroluem plants, etc... . Instrumentation cables are not allowed for direct connection to a low impedance sources, e.g. public mains electricity supply. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. No corrosive gases are emitted in the event of fire. With blue sheath it is suitable for intrinsically safe systems. These cables are not recommended for direct burial. They are for indoor and oudoor installation, in dry and wet locations; on racks, trays, in conduits.

KABLO YAPISI / CABLE DESIGN

Conductor	: Plain annealed copper wire, BS 6360; 0,50 mm^2 and 1,0 mm^2 solid, 0,50 mm^2 and 0,75 mm^2 flexible or 1,5 mm^2 stranded
Insulation (2Y)	: PE compound, BS 6234 Type03 (RE-2Y….)
Insulation (2X)	: XLPE compound, GP8, BS 7655 (RE-2X….)
Core identification	: Black / White / Red cores are numbered (1-1-1, 2-2-2,…)
Triple	: Three conductors twisted to a triple
Lay-up	: Triples laid up in layers of optimum pitch
Separator	: Polyester tape
Screen	: AL-PES tape over tinned copper drain wire 0,50 mm^2
Outer sheath	: LSZH compound, LST1, BS 7655
Sheath colour	: RAL 9005, Black or RAL 5015, Blue

LSZH : Low Smoke Zero Halogen

Note: Other core configurations manufactured upon request.

TEKNİK ÖZELLİKLER / TECHNICAL DATA

Standard	: Designed acc. to BS 5308 Part 1 Type 1
Insulation thickness (nominal)	: mm^2 0,50 1,0 0,50 0,75 1,5 mm^2 mm 0,50 0,60 0,60 0,60 0,60 mm
Conductor class, BS 6360	: mm^2 0,50 1,0 0,50 0,75 1,5 mm^2 Class 1 1 5 5 2 Class
Conductor resistance (20°C)	: mm^2 0,50 1,0 0,50 0,75 1,5 mm^2 Ω/km 36,8 18,4 39,7 26,5 12,3 Ω/km
Insulation resistance (20°C)	: Min. 5000 MΩ.km
Mutual Capacitance (1 kHz)	: ≤ 2 pairs / all other pairs 0,50 mm^2 : max. 115 pF/m max. 75 pF/m 0,75 mm^2 : max. 115 pF/m max. 75 pF/m 1,0 mm^2 : max. 115 pF/m max. 75 pF/m 1,5 mm^2 : max. 120 pF/m max. 85 pF/m
Capacitance unbalance	: (1 kHz) : max. 250 pF/250 m
L / R (ratio) (max.)	: mm^2 0,50 0,75 1,0 1,5 mm^2 µH/Ω 25 25 25 40 µH/Ω
Rated voltage (U_o / U)	: 300/500V
Test voltage	: U_{rms} core-core: 1000 V U_{rms} core-screen: 1000 V
Temperature range (2Y)	: operation : - 40 °C ~ + 70 °C ınstallation : - 5 °C ~ + 50 °C
Temperature range (2X)	: operation : - 40 °C ~ + 90 °C ınstallation : - 5 °C ~ + 50 °C
Min. bending radius	: 6 x D
Flame test	: IEC 60332-1 & BS EN 60332-1 IEC 60332-3 & BS EN 50266-2-4
Smoke density test	: IEC 61034-2 & BS EN 61034-2
Halogen-free properties test	: IEC60754-1/2 & BS EN 50267-2

Cross Sections

RE-2Y(St)H

Part-number	No. of triples	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
0,50 mm² (mono / solid)				
1617 11 001	1x3x0,50	6,5	19	60
1617 11 002	2x3x0,50	9,6	33	95
1617 11 005	5x3x0,50	12,2	77	180
1617 11 010	10x3x0,50	16,6	149	320
1617 11 015	15x3x0,50	18,9	221	440
1617 11 020	20x3x0,50	21,4	293	625
1617 11 030	30x3x0,50	26,1	437	900
1617 11 050	50x3x0,50	33,0	725	1495
0,50 mm² (flexible)				
1617 05 001	1x3x0,50	6,9	19	65
1617 05 002	2x3x0,50	11,5	33	105
1617 05 005	5x3x0,50	14,0	77	195
1617 05 010	10x3x0,50	19,2	149	340
1617 05 015	15x3x0,50	21,6	221	475
1617 05 020	20x3x0,50	25,3	293	670
1617 05 030	30x3x0,50	30,6	437	955
1617 05 050	50x3x0,50	38,9	725	1595
0,75 mm² (flexible)				
1617 06 001	1x3x0,75	7,5	26	75
1617 06 002	2x3x0,75	12,5	48	135
1617 06 005	5x3x0,75	15,6	113	275
1617 06 010	10x3x0,75	21,2	221	515
1617 06 015	15x3x0,75	24,8	329	720
1617 06 020	20x3x0,75	27,9	437	925
1617 06 030	30x3x0,75	33,9	653	1400
1617 06 050	50x3x0,75	43,5	1085	2205
1,0 mm² (mono / solid)				
1617 13 001	1x3x1	7,2	33	80
1617 13 002	2x3x1	12,1	62	145
1617 13 005	5x3x1	15,0	148	305
1617 13 010	10x3x1	20,5	292	580
1617 13 015	15x3x1	24,0	437	825
1617 13 020	20x3x1	27,0	581	1065
1617 13 030	30x3x1	32,8	869	1615
1617 13 050	50x3x1	42,4	1445	2595
1,5 mm² (stranded)				
1617 45 001	1x3x1,5	8,2	48	105
1617 45 002	2x3x1,5	13,6	91	195
1617 45 005	5x3x1,5	17,5	221	420
1617 45 010	10x3x1,5	24,6	437	795
1617 45 015	15x3x1,5	28,1	653	1130
1617 45 020	20x3x1,5	32,4	867	1480
1617 45 030	30x3x1,5	39,4	1301	2240
1617 45 050	50x3x1,5	49,8	2165	3585

RE-2X(St)H

Part-number	No. of triples	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
0,50 mm² (mono / solid)				
1618 11 001	1x3x0,50	6,5	19	60
1618 11 002	2x3x0,50	9,6	33	95
1618 11 005	5x3x0,50	12,2	77	180
1618 11 010	10x3x0,50	16,6	149	320
1618 11 015	15x3x0,50	18,9	221	440
1618 11 020	20x3x0,50	21,4	293	625
1618 11 030	30x3x0,50	26,1	437	900
1618 11 050	50x3x0,50	33,0	725	1495
0,50 mm² (flexible)				
1618 05 001	1x3x0,50	6,9	19	65
1618 05 002	2x3x0,50	11,5	33	105
1618 05 005	5x3x0,50	14,0	77	195
1618 05 010	10x3x0,50	19,2	149	340
1618 05 015	15x3x0,50	21,6	221	475
1618 05 020	20x3x0,50	25,3	293	670
1618 05 030	30x3x0,50	30,6	437	955
1618 05 050	50x3x0,50	38,9	725	1595
0,75 mm² (flexible)				
1618 06 001	1x3x0,75	7,5	26	75
1618 06 002	2x3x0,75	12,5	48	135
1618 06 005	5x3x0,75	15,6	113	275
1618 06 010	10x3x0,75	21,2	221	515
1618 06 015	15x3x0,75	24,8	329	720
1618 06 020	20x3x0,75	27,9	437	925
1618 06 030	30x3x0,75	33,9	653	1400
1618 06 050	50x3x0,75	43,5	1085	2205
1,0 mm² (mono / solid)				
1618 13 001	1x3x1	7,2	33	80
1618 13 002	2x3x1	12,1	62	145
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1618 13 030	30x3x1	32,8	869	1615
1618 13 050	50x3x1	42,4	1445	2595
1,5 mm² (stranded)				
1618 45 001	1x3x1,5	8,2	48	105
1618 45 002	2x3x1,5	13,6	91	195
1618 45 005	5x3x1,5	17,5	221	420
1618 45 010	10x3x1,5	24,6	437	795
1618 45 015	15x3x1,5	28,1	653	1130
1618 45 020	20x3x1,5	32,4	867	1480
1618 45 030	30x3x1,5	39,4	1301	2240
1618 45 050	50x3x1,5	49,8	2165	3585