RE-2Y(St)YQY-fl-TIMF 70° C

CU/PE/ISCR/OSCR/PVC/SWB/PVC

Instrumentation Cables PVC DK PE 300 V

PE insulated, screened, steel wire braided, PVC sheathed cable

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PE compound, EN 50290-2-23.
Core identification	: black / white / red; with numbered tape under separator tape of the pair screen. Upon request: black / white / red cores numbered 1-1-1, 2-2-2,… Other core configurations manufactured upon request.
Triple	: three conductors twisted to a triple.
TIMF Construction	: polyester tape above the triple, AL-PES tape over solid tinned copper drain wire, 0,60 mm. Upon request: stranded 0,50 mm² copper drain wire.
Lay-up	: TIMF laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: AL-PES tape over stranded tinned copper drain wire 0,50 mm².
Inner sheath	: PVC compound.
Sheath colour	: RAL 9005, black or RAL 5015, blue.
Armour	: braid of galvanized steel wires, aprox. 85% coverage.
Outer sheath	: PVC compound, flame retardant.

Technical data and tests:

Rated voltage	: 300 V.
Test voltage	: Urms core-core : 1500 V; Urms core-screen : 1500 V.
Temperature range	: operation : - 30° C ~ + 70° C; installation : - 5° C ~ + 50° C.
Insulation resistance	: min. 5000 MΩ/km.
Mutual Capacitance	: max. 120 pF/m.
Min. bending radius	: 10 x D.

Technical data and tests:

Insulation thickness	: 0,50 mm² : 0,40 mm;
	0,75 mm² : 0,40 mm;
	1,0 mm² : 0,40 mm;
	1,3 mm² : 0,45 mm;
	1,5 mm² : 0,45 mm.
Conductor resistance	: 0,50 mm² : 36,7 Ω/km;
	0,75 mm² : 25,0 Ω/km;
	1,0 mm² : 18,5 Ω/km;
	1,3 mm² : 14,2 Ω/km;
	1,5 mm² : 12,3 Ω/km.
L / R (ratio) (max.)	: 0,50 mm² : 25 µH/Ω;
	0,75 mm² : 25 µH/Ω;
	1,0 mm² : 25 µH/Ω;
	1,30 mm² : 40 µH/Ω;
	1,5 mm² : 40 µH/Ω.

Standards:

Design	: DIN EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Inner sheath	: EN 50290-2-22.
Outer sheath	: EN 50290-2-22.
Flame retardance	: IEC 60332-1 & EN 60332-1.

Applications:

These cables are used for transmission of analogue and digital signals in instrumentation 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 it is suitable for intrinsically safe systems. The armour above the sheath, steel wire braid serves as protection against mechanical traverse loads and act as a magnetic screen against interference. The galvanised steel wires are free of corrosion and oxidation. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits.

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HALLEY CABLES

www.halleycables.com

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DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x3x0,50	14,7	43	240
2x3x0,75	15,9	58	280
2x3x1	16,8	72	310
2x3x1,3	18,3	89	355
2x3x1,5	19,0	101	385
4x3x0,50	16,4	82	320
4x3x0,75	17,5	110	370
4x3x1	18,9	139	430
4x3x1,3	20,6	174	500
4x3x1,5	21,2	197	535
5x3x0,50	17,1	101	355
5x3x0,75	18,3	137	415
5x3x1	19,7	173	485
5x3x1,3	21,8	216	580
5x3x1,5	22,4	245	615
6x3x0,50	18,1	120	395
6x3x0,75	19,6	163	475
6x3x1	20,9	206	545
6x3x1,3	23,2	258	655
6x3x1,5	23,8	292	700
8x3x0,50	20,0	158	480
8x3x0,75	21,6	216	570
8x3x1	23,3	274	675
8x3x1,3	26,3	343	850
8x3x1,5	27,0	389	915
10x3x0,50	21,8	197	565
10x3x0,75	23,3	267	665
10x3x1	25,5	341	800
10x3x1,3	28,9	427	1025
10x3x1,5	29,9	485	1115
12x3x0,50	23,2	235	640
12x3x0,75	25,1	322	765
12x3x1	27,6	408	950
12x3x1,3	31,1	512	1180
12x3x1,5	32,0	581	1275
16x3x0,50	26,3	312	830

IEC CE VDE RoHS PG TSE

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DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x3x0,75	28,5	427	1000
16x3x1	31,3	542	1215
16x3x1,3	34,8	681	1475
16x3x1,5	35,9	773	1595
20x3x0,50	28,9	389	1000
20x3x0,75	31,6	533	1220
20x3x1	34,2	677	1450
20x3x1,3	38,5	850	1795
20x3x1,5	39,9	965	1960
24x3x0,50	31,1	466	1150
24x3x0,75	34,0	638	1410
24x3x1	36,9	811	1680
24x3x1,3	41,5	1019	2080
24x3x1,5	42,9	1157	2260

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