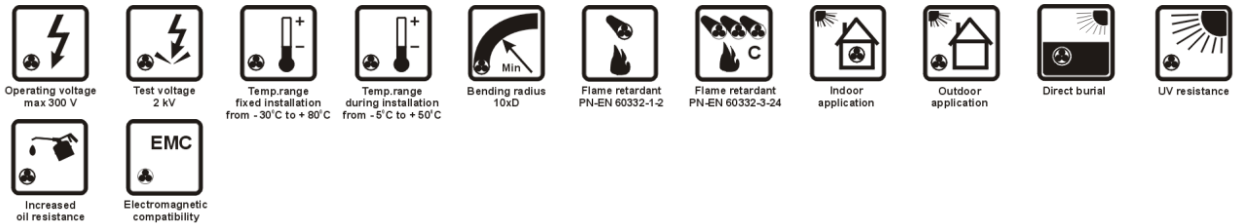


RE-2Y(St)Yv-fl**DATA TRANSMISSION CABLE****APPLICATIONS**

RE-2Y(St)Yv-fl are multipair, overall shielded cables intended for control and instrumentation circuits, for signal, monitoring and data processing systems and for analogue or digital data transmission, all in industrial electronics applications.

Sheathing PVC of high oxygen index is UV radiation and weather resistant, is self-extinguishing and flame retardant. The cables pass combustibility test according to EN 60332-3 standard.

The cables are oil-resistant and designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled.

High digital data transmission performance is achieved by polyethylene insulation and small capacitance of cable circuits.

The cables are protected by an overall electrostatic shield against external electric interferences.

The cables are suitable for indoor and outdoor installations in dry and wet locations, also for direct earth burial.

CONSTRUCTION

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 2 per PN-EN 60228,
- polyethylene (PE) insulation - identification colour code:
 - "a" wire – black insulation and white pair number printed on it,
 - "b" wire – white insulation and black pair number printed on it,
- insulated conductors twisted into pairs,
- pairs and an orange communication conductor laid-up into a cable core,
- cable core wrapped in polyester tape,
- overall electrostatic shield incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire,
- enhanced, oil, petrol and UV radiation resistant and self-extinguishing (oxygen index bigger than 29%) PVC cable sheath, black RAL 9005 or blue RAL 5015 (for intrinsically safe circuits).

RE-2Y(St)Yv-fl

CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.3
DC loop resistance at 20°C, maximum	Ω/km	78.0	52.0	28.4
Mutual capacitance at 1 kHz, approximate	nF/km	60	65	75

Operating voltage, peak value	300 V	Operating temperature range	from - 30 to + 80°C
Voltage test	2.0 kV rms	for fixed installation	from - 5 to + 50°C
Insulation resistance, minimum	5 GΩ·km	for movable installation	
Inductance, approximate	0.7 mH/km	Minimum bending radius	10 x cable diameter
		Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
			PN-EN 60332-3-24, IEC 60332-3-24 (cat. C)
		Oil resistance	PN-EN 60811-404
		Reference standards	PN-EN 50288-7

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1411 015	1 x 2 x 0,5	6.4	19.2	61
1411 016	2 x 2 x 0,5	8.6	28.8	92
1411 005	4 x 2 x 0,5	9.7	48.0	119
1411 006	6 x 2 x 0,5	11.3	67.2	153
1411 017	8 x 2 x 0,5	11.9	86.4	180
1411 018	10 x 2 x 0,5	13.3	105.6	214
1411 019	12 x 2 x 0,5	13.9	124.8	240
1411 020	26 x 2 x 0,5	18.9	259.2	436
1411 021	20 x 2 x 0,5	17.0	201.6	354
1411 022	24 x 2 x 0,5	18.3	240.0	409
1411 007	1 x 2 x 0,75	7.0	24.0	72
1411 023	2 x 2 x 0,75	9.6	38.4	115
1411 004	4 x 2 x 0,75	10.9	67.2	151
1411 024	6 x 2 x 0,75	12.7	96.0	199
1411 008	8 x 2 x 0,75	13.5	124.8	240
1411 025	10 x 2 x 0,75	15.2	153.6	287

Product No.	Number of pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1411 026	12 x 2 x 0,75	15.8	182.4	324
1411 009	16 x 2 x 0,75	17.7	240.0	407
1411 027	20 x 2 x 0,75	19.4	297.6	488
1411 028	24 x 2 x 0,75	21.0	355.2	569
1411 010	1 x 2 x 1,3	8.0	34.6	94
1411 003	2 x 2 x 1,3	11.3	59.5	154
1411 029	3 x 2 x 1,3	11.9	84.5	180
1411 011	4 x 2 x 1,3	13.0	109.4	218
1411 012	6 x 2 x 1,3	15.3	159.4	295
1411 013	8 x 2 x 1,3	16.3	209.3	362
1411 030	10 x 2 x 1,3	18.4	259.2	438
1411 031	12 x 2 x 1,3	19.2	309.1	501
1411 014	16 x 2 x 1,3	21.9	409.0	648
1411 032	20 x 2 x 1,3	24.0	508.8	783
1411 033	24 x 2 x 1,3	26.2	608.6	929

Other cross-sections and pair counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.