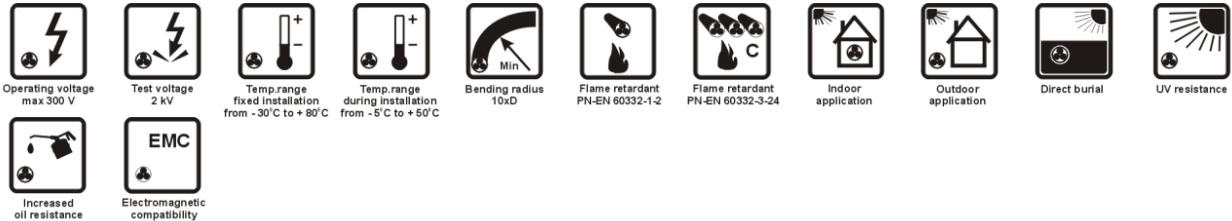


RE-2Y(St)Yv-fl PIMF**DATA TRANSMISSION CABLE****APPLICATIONS**

RE-2Y(St)Yv-fl PIMF are multipair, pair and 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.

Shielded pair structure substantially decreases mutual influence between signals transmitted along the cable.

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,
- pair shields incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire,
- shielded 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).

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CHARACTERISTICS

Conductor cross-section	mm ²	0.5	0.75	1.3
DC loop resistance at 20°C, maximum	Ω/km	78	52.0	28.4
Mutual capacitance at 1 kHz, approximate	nF/km	75	85	100

Operating voltage peak value	300 V	Operating temperature range	
Voltage test	2.0 kV rms	for fixed installation	from - 30 to + 80°C
Insulation resistance, minimum	5 GΩ·km	for movable installation	from - 5 to + 50°C
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
1412 020	1 x 2 x 0,5	6.7	21.9	73
1412 010	2 x 2 x 0,5	9.1	34.2	109
1412 008	4 x 2 x 0,5	10.4	58.8	142
1412 012	6 x 2 x 0,5	12.1	83.3	187
1412 021	8 x 2 x 0,5	12.8	107.9	225
1412 011	10 x 2 x 0,5	14.3	132.5	268
1412 009	12 x 2 x 0,5	14.9	157.1	304
1412 022	26 x 2 x 0,5	20.4	329.1	658
1412 023	20 x 2 x 0,5	18.3	255.4	469
1412 024	24 x 2 x 0,5	19.7	304.5	546
1412 025	1 x 2 x 0,75	7.3	26.7	84
1412 015	2 x 2 x 0,75	10.1	43.8	129
1412 026	4 x 2 x 0,75	11.5	78.0	176
1412 007	6 x 2 x 0,75	13.5	112.1	235
1412 003	8 x 2 x 0,75	14.3	146.3	285
1412 016	10 x 2 x 0,75	16.1	180.5	344

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
1412 001	12 x 2 x 0,75	16.8	214.7	393
1412 002	16 x 2 x 0,75	18.9	283.0	498
1412 027	20 x 2 x 0,75	20.7	351.4	611
1412 028	24 x 2 x 0,75	22.6	419.7	726
1412 029	1 x 2 x 1,3	8.3	37.2	107
1412 017	2 x 2 x 1,3	11.8	64.9	172
1412 030	3 x 2 x 1,3	12.5	92.5	200
1412 031	4 x 2 x 1,3	13.6	120.2	244
1412 032	6 x 2 x 1,3	16.1	175.5	333
1412 033	8 x 2 x 1,3	17.1	230.8	410
1412 034	10 x 2 x 1,3	19.4	286.1	498
1412 035	12 x 2 x 1,3	20.2	341.4	574
1412 036	16 x 2 x 1,3	23.1	452.0	746
1412 037	20 x 2 x 1,3	25.6	562.6	927
1412 018	24 x 2 x 1,3	27.7	673.2	1087

Other cross-sections and pair counts available on request.

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