TECHNOKABEL®

CE RoHS

ISO 9001:2008

RE-2Y(St)Yv PIMF

DATA TRANSMISSION CABLE

APPLICATIONS

RE-2Y(St)Yv 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.

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.

Cable outer sheath is oil-resistant.

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 PVC cable sheath, black RAL 9005 or blue RAL 5015 (for intrinsically safe circuits).

AVAILABLE UPON REQUEST

RE-2Y(St)Yv-O PIMF - cables designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled. The cable sheath is then made of special PVC compound meeting oil resistance requirements of Polish standard PN-EN 60811-404.

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CHARACTERISTICS

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

Operating voltage, peak value	300 V
Voltage test	2.0 kV rms
Insulation resistance, minimum	5 GΩ·km
Inductance, approximate	0.7 mH/km

Operating temperature range	
for fixed installation	from - 30 to + 80°C
for movable installation	from - 5 to + 50°C
Minimum bending radius	10 x cable diameter
Cable combustibility	flame retardant
Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
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
1165 003	2 x 2 x 0,5	9.1	34.2	105
1165 014	4 x 2 x 0,5	10.4	58.8	137
1165 001	6 x 2 x 0,5	12.1	83.3	181
1165 010	8 x 2 x 0,5	12.8	107.9	218
1165 021	10 x 2 x 0,5	14.3	132.5	260
1165 002	12 x 2 x 0,5	14.9	157.1	296
1165 015	16 x 2 x 0,5	16.7	206.2	373
1165 022	20 x 2 x 0,5	18.3	255.4	459
1165 023	24 x 2 x 0,5	19.7	304.5	535

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
1165 004	2 x 2 x 1,3	11.8	64.9	166
1165 008	4 x 2 x 1,3	13.6	120.2	236
1165 016	6 x 2 x 1,3	16.1	175.5	324
1165 017	8 x 2 x 1,3	17.1	230.8	401
1165 018	10 x 2 x 1,3	19.4	286.1	487
1165 019	12 x 2 x 1,3	20.2	341.4	563
1165 012	16 x 2 x 1,3	23.1	452.0	732
1165 020	20 x 2 x 1,3	25.6	562.6	911
1165 024	24 x 2 x 1,3	27.7	673.2	1070

Other cross-sections and pair counts available on request.
TECHNOKABEL S.A. reserves the right to change specifications without prior notice.

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