RE-2Y(St)Yv-P(St), RE-2Y(St)Yv-P

RoHS 2015/863/EU

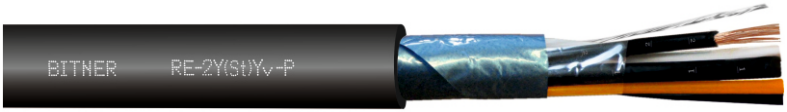
LVD 2014/35/EU

CPR

CPR 305/2011

24 months warranty

Data transmission cables with lower capacitance, screened and unscreend pair



industrial application | internal application | external application | underground installation | EN 60332-1 | data transmission | UV resistance | oil resistant EN 60811-404

Technical data:

Cable with multi-stranded conductors, polyethylene insulation (2Y), individually and collectively screened (St), with reinforced PVC outer sheath (Yv)
Operating temperature: -30°C to 80°C
Min. installation temp.: -5°C
Operating voltage (peak value): U=500 V
Test voltage:
core/core: 2000V
core/screen: 1000V
Insulation resistance of conductors in pair with respect to the adjacent pair connected with the screen: 5 GΩxkm
Conductor resistance:
0,5mm^2 -39,2 Ω/km
1,3mm^2-14,2 Ω/km
Capacitance:
0,5mm^2 - core/core 75nF/km
1,3mm^2 - core/screen 100nF/km
Inductivity: 0,75mH/km
Near-end crosstalk attenuation at 60Hz:
1,02 dB/km
Min. bending radius: 10xØ

Design:

Conductors: stranded copper conductors, class 2 as per EN 60228
Insulation: special polyethylene
Conductor marking: conductor a - black; conductor b - white with a printed number of pair
Core arrangement: cores twisted in pairs, pairs individually screened with aluminium backed polyester tape and tinned copper drain wire. Screened pairs and one communication core (orange) twisted together.
Common screen: aluminium backed polyester tape with solid tinned copper drain wire 0,5mm^2
Sheath: special PVC, self-extinguishing and flame retardant (as per EN 60332-1), UVresistant
Sheath colour: black

Application:

Cables designed for the transmission of data in numerical control systems and in numerical information transmission systems, ensuring optimal data transmission up to 200 KBiUs. The internal construction - twisted screened pairs - ensures very good cross-talk attenuation coefficient, while the common electrostatic screen protects against external interfering fields. Cables suitable for use inside buildings, in dry and damp rooms and also for underground installations and for external applications (UV-resistant outer sheath).

RE-2Y(St)Yv-P(St) - screened pairs:

Cat. no.	n x mm^2	Outer diameter* [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S10150	2x2x0,5	12,0	128	35,0
S10151	4x2x0,5	12,7	170	60,0
S10152	8x2x0,5	14,9	246	121,0
S10153	10x2x0,5	16,4	261	136,0
S10154	12x2x0,5	17,6	351	161,0
S10155	16x2x0,5	19,8	430	212,0
S10156	24x2x0,5	23,6	605	318,0
S10157	2x2x1,3	13,5	184	68,0
S10158	4x2x1,3	15,2	269	124,0
S10159	8x2x1,3	18,8	442	239,0
S10160	12x2x1,3	21,4	593	353,0
S10161	16x2x1,3	24,7	789	468,0
S10162	24x2x1,3	29,4	1104	697,0

RE-2Y(St)Yv-P - unscreened pairs:

Cat. no.	n x mm^2	Outer diameter* [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S10100	2x2x0,5	10,3	117	30,0
S10101	4x2x0,5	11,2	140	50,0
S10102	8x2x0,5	13,9	215	90,0
S10103	12x2x0,5	15,8	280	130,0
S10104	16x2x0,5	17,6	352	170,0
S10105	24x2x0,5	20,3	468	250,0
S10106	2x2x1,3	11,8	161	62,0
S10107	4x2x1,3	13,6	230	114,0
S10108	8x2x1,3	16,9	377	218,0
S10109	10x2x1,3	18,2	470	269,0
S10110	12x2x1,3	19,4	515	322,0
S10111	16x2x1,3	22,1	656	426,0
S10112	24x2x1,3	26,6	952	684,0

*Outer diameter tolerance +/- 5%
Cable Factory BITNER reserve the right to modify the specifications without prior notice
Note: On customer's request other cross sections or number of cores can be produced