RE-2Y(St)Yv

Computer cable, reinforced outer sheath

TECHNICAL DATA

Computer cable in alignment with DIN VDE 0819-7 / DIN EN 50288-7

Temperature range	flexible -5°C to +50°C fixed -40°C to +70°C
Peak operating voltage	300 V (not for high power current installation purposes)
Test voltage core/core	2000 V
Test voltage core/screen	1000 V
Conductor resistance at 20°C	0.5 mm²: max. 39.2 Ohm/km 0.75 mm²: max. 24.6 Ohm/km 1.3 mm²: max. 14.2 Ohm/km
Crosstalk attenuation	at 60 kHz, 0.88 dB (approx. value)
Inductance	approx. 0.75 mH/km
Minimum bending radius	flexible 15x Outer-Ø fixed 7.5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, stranded
- Wire structure:
  0.5 mm²: 7 x 0.3 mm
  0.75 mm²: 7 x 0.37 mm
  1.3 mm²: 7 x 0.49 mm
- Core insulation: PE
- Core identification: colour coded, pairs:
  a-core = black; b-core = white
  with consecutive numbering 1/1, 2/2, etc.,
  triads: a-core = black; b-core = white; c-core = red
- Cores stranded in pairs / triads with optimal lay lengths, Pairs stranded in layers with optimal lay lengths
- for multiple pair design: communication core, nominal cross-section: 0.5 mm², Core insulation: PE, Core identification: orange
- Foil wrapping
- Drain wire, tinned copper, stranded (0.5 mm² = 7 x 0.3 mm)
- Screen: plastic-coated aluminium foil (St), approx. overlap 25%
- Outer sheath: PVC, reinforced (v)
- Sheath colour: see table
- Length marking: in metres

PROPERTIES

- for outdoor use
- direct burial
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- low attenuation and operating capacities allow long transmission distances and short pulse transition times

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- certifications and approvals:
  EAC

APPLICATION

Computer cables are used in data processing and process control. When permanently installed, suitable for use in dry and damp rooms, outdoors and underground.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- copper weight including communication core and stranded copper drain wire
- with blue sheathing for the installation of intrinsically safe systems (ignition protection type -i-) in explosion-endangered areas according to DIN VDE 0165-1 / DIN EN 60079-14 / IEC 60079-14, Section 16.2.2

Sheath color: black (RAL 9005)

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Mutual capacitance core/core in pF/m approx.	Cu factor per km	Weight kg/km, approx.
20099	1 x 2 x 0.5	20	7.3	75	15.0	74.0
20100	2 x 2 x 0.5	20	9.3	75	30.0	117.0
20101	4 x 2 x 0.5	20	10.5	60	50.0	140.0
20233	6 x 2 x 0.5	20	12.2	60	70.0	190.0
20102	8 x 2 x 0.5	20	13.2	60	90.0	215.0
20103	10 x 2 x 0.5	20	14.7	60	110.0	220.0
20104	12 x 2 x 0.5	20	15.0	60	130.0	280.0
20105	16 x 2 x 0.5	20	16.8	60	170.0	352.0
20106	20 x 2 x 0.5	20	18.5	60	210.0	385.0
20107	24 x 2 x 0.5	20	19.9	60	250.0	468.0
20108	36 x 2 x 0.5	20	22.8	60	370.0	656.0
20109	48 x 2 x 0.5	20	26.1	60	490.0	854.0
20149	1 x 2 x 0.75	19	7.7	100	20.0	74.0
20150	2 x 2 x 0.75	19	10.0	100	35.0	123.0
20151	4 x 2 x 0.75	19	11.3	65	65.0	164.0
20152	8 x 2 x 0.75	19	14.3	65	125.0	258.0
20153	10 x 2 x 0.75	19	16.0	65	154.0	305.0
20154	12 x 2 x 0.75	19	16.3	65	185.0	350.0
20155	16 x 2 x 0.75	19	18.3	65	245.0	445.0
20156	20 x 2 x 0.75	19	20.2	65	298.0	520.0
20157	24 x 2 x 0.75	19	21.8	65	365.0	620.0
20158	36 x 2 x 0.75	19	25.4	65	532.0	940.0
20159	48 x 2 x 0.75	19	28.6	65	708.0	1250.0
20125	1 x 2 x 1.3		8.5	100	31.0	102.0
20132	1 x 3 x 1.3		8.9	100	44.0	116.0
20126	2 x 2 x 1.3		11.3	100	62.0	161.0
20127	4 x 2 x 1.3		12.9	75	114.0	230.0
20234	6 x 2 x 1.3		15.2	75	168.0	310.0
20128	8 x 2 x 1.3		16.5	75	218.0	377.0
20129	12 x 2 x 1.3		18.9	75	322.0	515.0

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Computer cable, reinforced outer sheath

Sheath color: black (RAL 9005)

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Mutual capacitance core/core in pF/m approx.	Cu factor per km	Weight kg/km, approx.
20130	16 x 2 x 1.3		21.3	75	426.0	656.0
20131	24 x 2 x 1.3		25.9	75	684.0	952.0

Sheath color: blue (RAL 5015)

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Mutual capacitance core/core in pF/m approx.	Cu factor per km	Weight kg/km, approx.
20235	1 x 2 x 0.5	20	7.3	75	15.0	74.0
20236	2 x 2 x 0.5	20	9.3	75	30.0	117.0
20237	4 x 2 x 0.5	20	10.5	60	50.0	140.0
20238	6 x 2 x 0.5	20	12.2	60	70.0	190.0
20239	8 x 2 x 0.5	20	13.2	60	90.0	215.0
20240	10 x 2 x 0.5	20	14.7	60	110.0	220.0
20241	12 x 2 x 0.5	20	15.0	60	130.0	280.0
20242	16 x 2 x 0.5	20	16.8	60	170.0	352.0
20243	20 x 2 x 0.5	20	18.5	60	210.0	385.0
20244	24 x 2 x 0.5	20	19.9	60	250.0	468.0
20245	36 x 2 x 0.5	20	22.8	60	370.0	656.0
20246	48 x 2 x 0.5	20	26.1	60	490.0	854.0
20169	1 x 2 x 0.75	19	7.7	100	20.0	74.0
20170	2 x 2 x 0.75	19	10.0	100	35.0	123.0
20171	4 x 2 x 0.75	19	11.3	65	65.0	164.0
20172	8 x 2 x 0.75	19	14.3	65	125.0	258.0
20173	10 x 2 x 0.75	19	16.0	65	154.0	305.0
20174	12 x 2 x 0.75	19	16.3	65	185.0	350.0
20175	16 x 2 x 0.75	19	18.3	65	245.0	445.0
20176	20 x 2 x 0.75	19	20.2	65	298.0	520.0
20177	24 x 2 x 0.75	19	21.8	65	365.0	620.0
20178	36 x 2 x 0.75	19	25.4	65	532.0	940.0
20179	48 x 2 x 0.75	19	28.6	65	708.0	1250.0
20247	1 x 2 x 1.3		8.5	100	31.0	102.0
20255	1 x 3 x 1.3		8.9	100	44.0	116.0
20248	2 x 2 x 1.3		11.3	100	62.0	161.0
20249	4 x 2 x 1.3		12.9	75	114.0	230.0
20250	6 x 2 x 1.3		15.2	75	168.0	310.0
20251	8 x 2 x 1.3		16.5	75	218.0	377.0
20252	12 x 2 x 1.3		18.9	75	322.0	515.0
20253	16 x 2 x 1.3		21.3	75	426.0	656.0
20254	24 x 2 x 1.3		25.9	75	684.0	952.0