



<b>conductor material:</b>	stranded bare Cu conductor 0.5qmm = 7x0.30 mm 1.0qmm = 7x0.43 mm
<b>insulation:</b>	special PVC, semi-rigid
<b>cores:</b>	core colours of pairs: pair 1: blue + red pair 2: grey + yellow pair 3: green + brown pair 4: white + black
<b>stranding:</b>	cores twisted in pairs, 4 cores twisted forming a bunch (in case of 2 pairs twisted to form a star quad), several bunches twisted in layers, identification of bunches by number coding of film
<b>screening:</b>	static screen made of plastics laminated metal foil with multi-wire tinned tracer strand
<b>outer sheath:</b>	PVC
<b>sheath colour:</b>	blue RAL 5015
<b>peak operating voltage:</b>	225 V (not approved for use as mains power cable)
<b>test voltage:</b>	2000 V 50 Hz 1 min. = core/core 2000 V 50 Hz 1 min. = core/screen
<b>insulation resistance:</b>	≥100 MOhm x km
<b>conductor loop resistance:</b>	0.5 qmm = ca. 73.6 Ohm/km 1.0 qmm = ca. 36.8 Ohm/km
<b>mutual capacitance at 800 Hz:</b>	max. 100 nF/km max. 120 nF/km = 2 and 4 pairs
<b>capacitance coupling at 800 Hz:</b>	max. 200 pF/ 100 m (20% max. 400 pF/100m)
<b>wave impedance:</b>	0.5 qmm = 1 kHz approx. 370 Ohm + 10 kHz approx. 130 Ohm 1.0 qmm = 1 kHz approx. 250 Ohm + 10 kHz approx. 100 Ohm
<b>crosstalk attenuation at 10 kHz:</b>	min. 60 dB/500m
<b>conductor attenuation (approx.):</b>	0.5 qmm = 1 kHz 1.2 dB/km + 10 kHz 3.0 dB/km 1.0 qmm = 1 kHz 0.8 dB/km + 10 kHz 2.1 dB/km
<b>bending radius:</b>	7.5 x cable diameter
<b>temperature range:</b>	-5 to +50°C flexible -30 to +70°C stationary
<b>flame retardant:</b>	to IEC 60332-1
<b>application:</b>	Used in power plants and industrial facilities and in measuring and control technology. The static screen protects the transmission circuits against external electrical interference. The reduced and varying lay lengths provide optimum crosstalk attenuation. Analog and digital signals ensure transmission up to a frequency of about 10 kHz. Designed for stationary installation within closed buildings.

*The products and information presented here are for technical calculation only.*

*They are subject to technical progress and in no way represent the ability of shipment.*

*Outer diameters are approximately.*

## *RD-Y(St)Y EB*

*Process control cable with blue outer sheath for use in intrinsically safe electric circuits, to VDE 0815*

KENEX PART NUMBER	NUMBER CORES X CROSS SECTION MM <sup>2</sup>	OUTER Ø APPROX. MM	COPPER WEIGHT KG/KM	CABLE WEIGHT KG/KM
35RD02205EB	RD-Y(St)Y EB 02 x 2 x 0,5	6,0	25,0	55
35RD04205EB	RD-Y(St)Y EB 04 x 2 x 0,5	8,0	45,0	91
35RD08205EB	RD-Y(St)Y EB 08 x 2 x 0,5	11,5	85,0	158
35RD12005EB	RD-Y(St)Y EB 12 x 2 x 0,5	12,0	125,0	210
35RD16205EB	RD-Y(St)Y EB 16 x 2 x 0,5	13,7	165,0	280
35RD20205EB	RD-Y(St)Y EB 20 x 2 x 0,5	15,0	205,0	340
35RD24205EB	RD-Y(St)Y EB 24 x 2 x 0,5	16,3	245,0	390
35RD32205EB	RD-Y(St)Y EB 32 x 2 x 0,5	21,0	325,0	530
35RD40205EB	RD-Y(St)Y EB 40 x 2 x 0,5	21,8	405,0	640
35RD48205EB	RD-Y(St)Y EB 48 x 2 x 0,5	23,0	485,0	750
35RD80205EB	RD-Y(St)Y EB 80 x 2 x 0,5	28,8	805,0	1200
35RD96205EB	RD-Y(St)Y EB 96 x 2 x 0,5	30,5	965,0	1570
35RD02210EB	RD-Y(St)Y EB 02 x 2 x 1,0	7,6	51,0	120
35RD04210EB	RD-Y(St)Y EB 04 x 2 x 1,0	10,4	91,0	180
35RD08210EB	RD-Y(St)Y EB 08 x 2 x 1,0	15,2	171,0	310
35RD12210EB	RD-Y(St)Y EB 12 x 2 x 1,0	16,1	252,0	420
35RD16210EB	RD-Y(St)Y EB 16 x 2 x 1,0	18,2	332,0	560
35RD20210EB	RD-Y(St)Y EB 20 x 2 x 1,0	20,0	413,0	670
35RD24210EB	RD-Y(St)Y EB 24 x 2 x 1,0	21,9	493,0	810
35RD32210EB	RD-Y(St)Y EB 32 x 2 x 1,0	28,5	654,0	1040
35RD40210EB	RD-Y(St)Y EB 40 x 2 x 1,0	29,6	816,0	1290
35RD48210EB	RD-Y(St)Y EB 48 x 2 x 1,0	31,2	977,0	1520
35RD80210EB	RD-Y(St)Y EB 80 x 2 x 1,0	39,3	1617,0	2440