DIN VDE 0815 RD-Y(St)Y

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Bd PVC-Insulated Paired Electrostatic-Screened Process

DIN VDE 0815 · 300 V · −30…+70 °C industrial RD-Y(St)Y construction

DIN VDE 0815 | 300 V | −30…+70 °C



Application

RD-Y(St)Y Bd PVC-Insulated Paired Electrostatic-Screened Process Control Station Cable (RD-Y(St)Y) engineered to DIN VDE 0815 for 300 V service across −30…+70 °C, featuring stranded bare & tinned copper conductor and pvc outer sheath ral 7032 with

Typical uses: Automated Assembly & Packaging Lines, CNC Machine Tools & Robotics, PLC/DCS Control & Marshalling Cabinets, Industrial Drives & Motor Manufacturing, High-Voltage Grid & Substation Interconnects

Construction





Cross-section, not to scale

1	Stranded bare & tinned copper conductor	DIN VDE 0815
2	PVC core insulation	DIN VDE 0815
3	Polyester binder	DIN VDE 0815
4	Al/polyester overall screen	DIN VDE 0815
5	PVC outer sheath RAL 7032	DIN VDE 0815

Technical data

Typical values

Rated voltage / duty	300 V (DIN VDE 0815)	**Conductor construction**	Stranded bare & tinned copper conductor — High-conductivity bare & tinned copper conductor per DIN VDE 0815
Primary insulation / dielectric	PVC core insulation — Extruded PVC dielectric (individual core / group layer)	**Continuous operating temperature**	−30…+70 °C per DIN VDE 0815
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s adiabatic limit depending on dielectric class)	**Minimum installation temperature**	−5 °C (thermoplastic) / −25 °C (cross-linked or elastomer) / −40 °C (metallic)
Outer protection / covering	PVC outer sheath RAL 7032 — Extruded PVC outer sheath RAL 7032 protective layer (continuous layer)	**Minimum bending radius**	7.5 × OD (installed / static routing)
Layer count & geometry	5 concentric/structural layers verified by cross-section inspection	**Environmental & chemical durability**	Engineered for industrial service in accordance with DIN VDE 0815
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant	**Standards**	DIN VDE 0815

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Outer Ø ≈ mm	Weight ≈ kg/km	Min. bend R fixed mm
RD-Y(St)Y Standard Construction Schedule (300 V · −30…+70 °C) 12 sizes				
☐ RD-Y(St)Y 1×2×0.5	1×2×0.5 mm²	6.4	58	52
☐ RD-Y(St)Y 2×2×0.5	2×2×0.5 mm²	9.2	112	74
☐ RD-Y(St)Y 4×2×0.5	4×2×0.5 mm²	11.4	176	92
☐ RD-Y(St)Y 8×2×0.5	8×2×0.5 mm²	14.8	295	118
☐ RD-Y(St)Y 12×2×0.5	12×2×0.5 mm²	17.6	420	141
☐ RD-Y(St)Y 1×2×1.0	1×2×1.0 mm²	7.6	86	61
☐ RD-Y(St)Y 2×2×1.0	2×2×1.0 mm²	11.0	168	88
☐ RD-Y(St)Y 4×2×1.0	4×2×1.0 mm²	13.5	264	108
☐ RD-Y(St)Y 8×2×1.0	8×2×1.0 mm²	17.9	465	143
☐ RD-Y(St)Y 1×2×1.5	1×2×1.5 mm²	8.5	114	68
☐ RD-Y(St)Y 4×2×1.5	4×2×1.5 mm²	15.2	348	122
☐ RD-Y(St)Y 12×2×1.5	12×2×1.5 mm²	23.4	860	187

– Additional pair/triad/quad counts (up to 48 pairs) and blue Ex-i intrinsically safe outer sheaths available per DIN VDE 0815.

Electrical parameters by conductor cross-section

5 sizes

Conductor size	Max. DC R_{20} Ω/km	Mutual cap. ≈ nF/km	Inductance ≈ mH/km
0.50 mm² (7/0.30 mm · AWG 20)	39.00	115	0.65
0.75 mm² (7/0.37 mm · AWG 18)	26.00	120	0.62
1.00 mm² (7/0.43 mm · AWG 17)	19.50	125	0.60
1.50 mm² (7/0.53 mm · AWG 16)	13.30	135	0.58
2.50 mm² (7/0.67 mm · AWG 14)	7.98	145	0.55

– L/R ratio ≤ 25 µH/Ω (0.5–1.0 mm²) and ≤ 40 µH/Ω (1.5 mm²) for intrinsically safe Ex-i circuits.

Standards and approvals

- DIN VDE 0815 Compliant
- EN 10204 3.1 Routine Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/rd-y-st-y-paired-screened-process-control-station-cable

Typical values for this cable type, based on DIN VDE 0815. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.