RD-H(St)H...Bd



Areas of Use

Used for communication and instrumentation purposes in industries like oil exploration, cement, paper, steel, power generation as well as in intrinsically safe systems in hazardous areas like petrochemical plants and thermal power plants to monitor measuring equipment in process automation applications. HFFR types are less flammable in case of fire, mostly self-extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during a fire.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2)
Insulation	HFFR (LSZH, LSOH, FRNC) (EN 50290-2-26)
Stranding	Two cores twisted to a pair (20 pitch / m), each bundle laid up with 4 pairs, each bundle is wrapped by numbered or colored PET Foil
Lay-up	Bundles laid-up in layers
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
Outer Sheath	UV Resistant, Flame Retardant PVC (EN 50290-2-22), RAL 7000 - Grey, RAL 5015 - Blue (other colors open request)
Reference Standards	VDE 0815
Core Colors	1. Pair: Blue / Red 2. Pair: Gray / Yellow 3. Pair: Green / Brown 4. Pair: Black / White

Technical Properties

Operating Voltage	300 V
Test Voltage	Core - Core: 1000 V; Core - Screen: 1000 V
Conductor Resistance	0.50 mm² - ≤36 Ω/km; 1.00 mm² - ≤18.1 Ω/km
Insulation Resistance	>100 M.Ωxkm
Capacitance Unbalance (800 Hz)	≤200 pF/100m
Capacitance (@800Hz)	≤100 nF/km (capacitance values may increase by 20% up to 4 pair)
Temperature Range	Fixed: -40 °C .....+90 °C, Flexible: -5 °C .....+50 °C
Flame Retardancy	IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C)
Smoke Density	IEC/EN 61034-1
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Oil Resistance	IEC/EN 60811-404, ASTM No 2 oil 70 °C 4 hours
Min. Bending Radius (Fixed)	8 x Cable Diameter

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