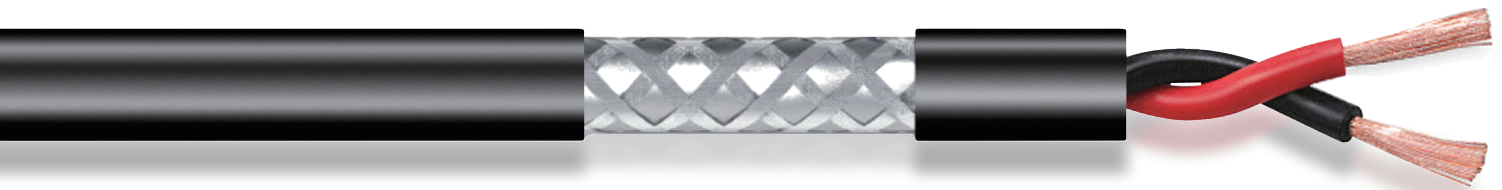


Low Smoke Zero Halogen Flame Retardant Shielded Twisted Pair Signal Cable

WDZR-RYYPS



APPLICATION RANGE

This cable is suitable for use in AC (alternating current) systems with a rated voltage U_0/U of 300/300V and below. It is designed for applications requiring shielded, interference-resistant connections, such as:

- Automation and control systems
- Security alarm systems
- Audio and public address (PA) systems



CONSTRUCTION AND MATERIALS

- Conductor: High-purity oxygen-free copper wire (Plain annealed copper) to IEC 60228
- Insulation: High flame-retardant, Low Smoke Zero Halogen (LSOH) polyolefin material
- Twisting: Insulated cores are twisted into pairs
- Shielding: Overall shield consisting of
 - Aluminium foil (Al-Pet tape)
 - High-density tinned copper wire braid
- Sheath (Jacket): High flame-retardant, Low Smoke Zero Halogen (LSOH) polyolefin material



PERFORMANCE CHARACTERISTICS

- Operating Temperature
 - Long-term permissible working temperature: 90°C
- Installation Temperature
 - Minimum cable installation temperature: -20°C
- Fire Performance
 - Flame Propagation to IEC60332-1-2 & IEC60332-3-22/23/24
 - Low Smoke Emission: Smoke Density to IEC61034-2, Min. Light Transmittance $\geq 60\%$
 - Halogen Free Properties IEC 60754-1, Halogen Acid Gas Emission: ≤ 2.0 mg/g
 - Acidity (pH) Value & Conductivity of Evolved Gases to IEC 60754-2: pH ≥ 4.3 and Conductivity ≤ 10 $\mu\text{S/mm}$



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TECHNICAL DATA

Specification (No. of Pairs x No. of Cores x Conductor Size mm ²)	Conductor Structure (No. of Strands / Strand Diameter mm)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Approximate Overall Diameter (mm)	Max. Conductor DC Resistance at 20°C (Ω/km)	Min. Insulation Resistance at 70°C (MΩ·km)	Reference Ampacity (A)
1 x 2 x 0.5	16 / 0.20	0.5	0.6	5.4	39.0	0.013	5.0
1 x 2 x 0.75	24 / 0.20	0.5	0.6	5.9	26.0	0.012	7.0
1 x 2 x 1.0	32 / 0.20	0.6	0.6	6.7	19.5	0.010	11.0
1 x 2 x 1.5	48 / 0.20	0.7	0.8	7.9	13.3	0.009	17.0
1 x 2 x 2.5	49 / 0.25	0.8	1.0	9.7	8.8	0.009	26.0
2 x 2 x 0.5	16 / 0.20	0.5	0.8	8.0	39.0	0.013	5.0
2 x 2 x 0.75	24 / 0.20	0.5	0.9	9.1	26.0	0.012	7.0
2 x 2 x 1.0	32 / 0.20	0.6	1.0	10.6	19.50	0.010	11.0
2 x 2 x 1.5	48 / 0.20	0.7	1.1	12.3	13.30	0.009	17.0
2 x 2 x 2.5	49 / 0.25	0.8	1.3	15.3	8.8	0.009	26.0
3 x 2 x 0.5	16 / 0.20	0.5	0.9	8.7	39.0	0.013	5.0
3 x 2 x 0.75	24 / 0.20	0.5	0.9	9.6	26.0	0.012	7.0
3 x 2 x 1.0	32 / 0.20	0.6	1.0	11.2	19.5	0.010	11.0
3 x 2 x 1.5	48 / 0.20	0.7	1.2	13.2	13.3	0.009	17.0
4 x 2 x 0.5	16 / 0.20	0.5	0.9	9.4	39.0	0.013	5.0
4 x 2 x 0.75	24 / 0.20	0.5	1.0	10.7	26.0	0.012	7.0
4 x 2 x 1.0	32 / 0.20	0.6	1.1	12.5	19.50	0.010	11.0
4 x 2 x 1.5	48 / 0.20	0.7	1.3	14.7	13.3	0.009	17.0



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