

Technical Specification

Cable Type: 4x1.0mm² Flexible Shielded Indoor Control Cable

Western Wire Part Number: CB504H90

Revision: 02/09 Date: 19 November 2009



Physical Description

The cable contains 4 PVC insulated conductors, cabled, overall shielded with a tinned-copper braid and overall jacketed with soft PVC compound for indoor use.

Conductor type	Stranded, bare annealed copper.
Conductor size	1.0 mm ²
Conductor construction	32x0.20 mm.
Insulation type	Soft flame-retardant PVC compound.
Insulation thickness	0.4 mm nom.
Insulation OD	2.2 mm nom.
Total number of conductors	4
Color code	3 Black wires numbered 1-ONE, 2-TWO, 3-THREE. 1 Yellow/Green wire.
Core cabling	The 4 conductors are cable together to form a round cross-section.
Core OD	5.3 mm nom.
Core wrap	Polyester tape, providing 100% coverage with 25% overlap
Overall shield	Braid shield made of tin-coated annealed 0.15 mm copper wires, providing 85% coverage nom.
Outer Jacket	Soft flame-retardant PVC compound for indoor use.
Jacket thickness	0.8 mm nom.
Overall Diameter	7.4 mm nom.
Color	Grey RAL 7005.
Surface Marking	WESTERN WIRE CB504H90 4x1.0 SQ.MM. SHIELDED CONTROL CABLE FR IEC 60332-1 CE 2002/95/EC (RoHS) [Month, Year] [Batch Number] [Sequential Meter Mark] METER

Physical Properties

Minimum Bend Radius	10 x D
Operating temperature	-20 to +70C
Flame test	IEC 60332-1
Total Weight	90 Kg/Km nom.

Electrical Properties @ 20C

DC Resistance	19.5 Ohm/Km max.
Voltage rating	300 V rms max.
Insulation Dielectric strength	1500 V rms min/ 3 sec between conductors. 1500 V rms min/ 3 sec between conductors and shield.
Jacket Dielectric strength	5000 V rms min/ 1 minute (shield to water)
Insulation resistance	10 MOhm-Km min. @ 500V

This cable fully conforms to EU Directive 2002/95/EC (RoHS)