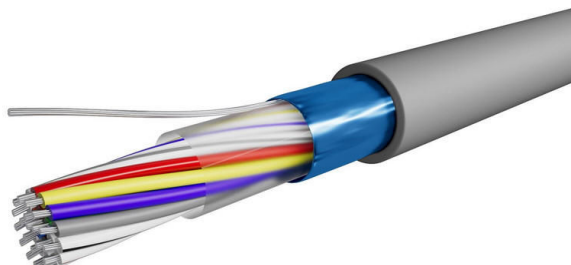


Technical Specification

Cable Type: Nx22# HFFR Insulated & Jacketed Overall Shielded LF Control Cables

PN: AF1xxF9H

Revision: 05/25 Date: 11/02/2025



Picture is for reference and may vary

Physical Description

Conductors	Stranded annealed tinned copper, 7x0.25 mm nom. (22 AWG)
Insulation type	HFFR compound, rated at -20 to +80C
Insulation thickness	0.27 mm nom.
Insulation OD	1.35 mm nom.

Color Code

Core number	Core color	Core number	Core color
1	Black	13	White/Green
2	Red	14	White/Yellow
3	Green	15	White/Blue
4	White	16	White/Orange
5	Brown	17	White/Yellow
6	Blue	18	White/Purple
7	Orange	19	White/Grey
8	Yellow	20	Black/Red
9	Purple	21	Black/Green
10	Gray	22	Black/Blue
11	White/Black	23	Black/Orange
12	White/Red	24	Black/Yellow

Cores arrangement	See table below
Core warp	Polyester tape, providing 100% coverage
Drain wire	Stranded 22# annealed tinned copper 7x0.25 mm nom.
Overall shield	Polyester-aluminum tape, foil face in, providing 100% coverage
Outer jacket	HFFR compound per EN 50290-2-27, rated at -20 to +80C
Jacket color	Gray, RAL 7005
Surface marking	WESTERN WIRE AF1xxF9H Nx22 AWG OVERALL FOIL SHIELDED 60V HFFR CONTROL CABLE FR IEC 60332-1 CE 2011/65/EU (RoHS-2) [Month, Year] [Batch Number] [Sequential Meter Mark] METER
Notes	The jacket is easily removable.

Individual Cable Specifications & Ordering information

Cable P/N	Core count	Cores arrangement	Jacket thickness (mm)	Cable nom. OD. (mm)	Cable nom. weight (kg/km)
AF102F9H	2	Twisted together	0.6	4.0	25
AF104F9H	4	Cabled together concentrically	0.6	4.6	32
AF106F9H	6	Cabled together concentrically	0.6	5.5	49
AF108F9H	8	Cabled together concentrically (1+7)	0.7	6.0	62
AF110F9H	10	Cabled together concentrically (2+8)	0.8	7.0	71
AF112F9H	12	Cabled together concentrically (3+9)	0.8	7.0	82
AF115F9H	15	Cabled together concentrically (5+10)	1.0	8.3	105
AF120F9H	20	Cabled together concentrically (1+6+13)	1.0	9.0	130
AF124F9H	24	Cabled together concentrically (2+8+15)	1.0	10.0	155

Note: All Weight & Diameter parameters are nominal values and may vary. Fillers may be used for a round circular shape.

Mechanical Properties

Minimum Bend Radius	20 x D
Insulation tensile strength	8.5 N/mm ²
Jacket tensile strength	9 N/mm ²
Insulation & Jacket elongation at break	125%
Operating temperature	-20 to +80C
Flame tests	IEC 60332-1, IEC 60754-2, IEC 61034-2

Electrical Properties @ 20C

DC Resistance of conductors	62.0 Ohm /km max.
Dielectric strength	1500 VDC/1Minute
Voltage rating	60V rms max.

This cable fully conforms to EU Directive 2011/65/EU (RoHS-2)