

Construction

Conductor	Extra flexible bare copper wires Class VI Acc. to UNE-EN 60228
Insulation	Polyolefin (UL-CSA Standards) Identification: Black numbered + Yellow/Green
Assembly	· Up to 12 conductors: In concentric crowns · > 12 conductors: In sets Non-woven textile tape casing over the assembly
Overall screen	Tinned copper wire braid Coverage: 85% + non-woven textile tape wrap over the screen
Outer sheath	Polyurethane (UL-CSA Standards) Grey RAL 7040 according DESINA (*Other colours on request)

Technical characteristics

Operating voltage	300 V : Sections from 0,5mm ² (AWG21) to 1,0mm ² (AWG18) 1000 V : Sections > 1,0mm ² (AWG18)
Test Voltage	2000 V : Sections from 0,5mm ² (AWG21) to 1,0mm ² (AWG18) 3000 V : Sections > 1,0mm ² (AWG18)
Operating T^a (conductor)	-40°C to +80°C
Min. bending radius	Fixed Installation: 5xD Moving cable: · From 1,5mm ² to 16mm ² : 7,5xD · From 25mm ² : 10xD
Characteristics in dynamic installations	Maximum speed: 300 m/min Maximum acceleration: 50 m/s ² Maximum length of the chain: 15 m (horizontal) Life cycle in flexion: 6.000.000

Application

Shielded power and control cable designed for use in industrial processes. Extraflexible and with high resistance to abrasion and flexion in dynamic installations, especially recommended for use in cable chains when good electromagnetic protection is required. Likewise, due to its UV radiation, ozone, and humidity resistance, the cable can also be used in outdoor applications.

Standards / Properties

Ref. for construction/drawing	According NFPA 79-2012 Chapter 12.9 According UL 758, UL 1581 and CSA 22.2 210.2 · Sections of 0,5mm ² (AWG21) and less than 1,0mm ² (AWG18): UL 80° 300V - CSA AWM I/II A/B 80°C 300V · Sections from 1,0mm ² (AWG18), included: UL 80° 1000V - CSA AWM I/II A/B 80°C 1000V
Flame Retardant	UNE-EN 60332-1 (IEC 60332-1) CEI 20-35 UL VW-1

CSA FT1

Halogen free

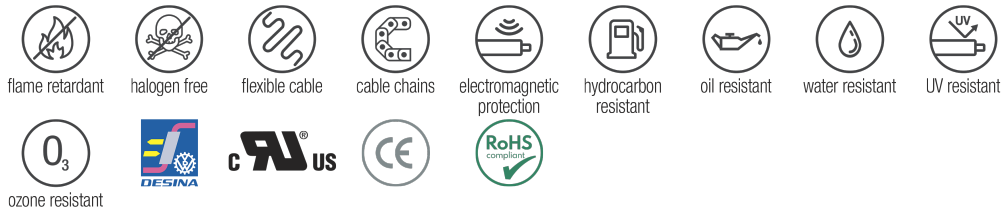
UNE-EN 60754-1 (IEC 60754-1)
CEI 20-37

Oil and hydrocarbon resistant

UL 1581
VDE 0472 part 803 A/B
HD 22.10 S1
CNOMO E.03.40.150N

Water resistant

UL 1581
IEC 60811



Constructive Data

Code	NxS (mm2)	Ø (mm)	Weight (kg/km)	Rt (Ohm/Km)
28104702	2x0.5	5.7	51	39
28107602	3G0.5	5.8	62	39
28112502	4G0.5	6.3	84	39
28115502	5G0.5	6.7	95	39
28119302	7G0.5	8	118	39
28125802	12G0.5	9.4	182	39
28129502	18G0.5	12.6	254	39
28134202	25G0.5	14.4	331	39
	34G0.5	17.3	456	39
	41G0.5	19.2	550	39
28105402	2x1	6.5	59	19.5
28108302	3G1	6.8	83	19.5
28113202	4G1	7.4	96	19.5
28116102	5G1	8	115	19.5
28119502	7G1	9.4	144	19.5
28126002	12G1	11.5	220	19.5
28129702	18G1	16.6	316	19.5
28134402	25G1	18.2	447	19.5
28136802	30G1			
28137302	34G1	22.8	582	19.5
28140702	41G1	25.4	659	19.5
28105502	2x1.5	7.5	84	13.3
28108402	3G1.5	8	106	13.3
28113302	4G1.5	8.7	126	13.3
28116202	5G1.5	9.5	150	13.3
28119602	7G1.5	11.6	192	13.3
28126102	12G1.5	13.6	305	13.3
28129802	18G1.5	19.8	447	13.3
28134502	25G1.5	22.6	609	13.3
28139702	34G1.5	27.5	844	13.3
28140802	41G1.5	30.2	999	13.3
28105702	2x2.5	9.2	108	7.98
28108602	3G2.5	10.2	139	7.98
28113502	4G2.5	10.9	168	7.98
28116302	5G2.5	11.6	204	7.98
28119702	7G2.5	13.6	260	7.98
28126202	12G2.5	16.8	423	7.98
28129602	18G2.5	25	636	7.98
28134602	25G2.5	29	911	7.98
28105802	2x4	9.4	135	4.95
28108802	3G4	11.2	194	4.95
28113702	4G4	12.3	239	4.95
28116402	5G4	13.6	289	4.95
28119802	7G4	16.2	386	4.95

Code	NxS (mm2)	Ø (mm)	Weight (kg/km)	Rt (Ohm/Km)
28113802	4G6	14.2	353	3.3
28116502	5G6	15.5	409	3.3
28119902	7G6	19.2	574	3.3
28113902	4G10	18.6	567	1.91
28116602	5G10	19.6	697	1.91
28120002	7G10	24.5	985	1.91
28114002	4G16	21.5	859	1.21
28116702	5G16	23.5	1087	1.21
28120102	7G16	29	1440	1.21
28114102	4G25	26.2	1442	0.78
28114202	4G35	31.8	2047	0.554
28114302	4G50	37.6	3073	0.386
28114402	4G70	40.5	3082	0.272
28114502	4G95	46.8	4993	0.206

Legend

- Code** Cervi codification
- NxS (mm2)** Number of conductors x Section (mm2)
- Ø (mm)** Aprox. outer diameter (mm)
- Weight (kg/km)** Approximate cable weight (kg/km)
- Rt (Ohm/Km)** Conductor resistance at 20°C (Ohm/km)