

Cables

Page

har-link®	40.02
har-mik®	40.02
D-Sub – S and SEK	40.04

Cables for insulation displacement termination

Identification	No. of pairs	Part No.
Twisted pair cable with braid shield AWG 28 Length per reel: 100 m*	5	60 90 005 6003
	10	60 90 010 6003
	13	60 90 013 6003
	14	60 90 014 6003
	18	60 90 018 6003
	20	60 90 020 6003
	25	60 90 025 6003
	34	60 90 034 6003
	40	60 90 040 6003
	48	60 90 048 6003
	50	60 90 050 6003

Drawing

Dimensions in mm

No. of pairs	Outside diameter	
	Nominal	Max
5	5.4	5.6
10	6.2	6.5
13	6.5	6.8
14	6.5	6.8
18	7.4	7.7
20	7.7	8.2
25	8.2	8.5
34	8.7	9.0
40	9.9	10.4
48	10.1	10.6
50	13.0	13.5

Twisted pair Separator Shield Jacket PVC

Technical characteristics

Number of pairs	5, 10, 13, 14, 18, 20, 25, 34, 40, 48, 50	Propagation velocity	60 %
Voltage rating	30 V (style UL 2789)	Temperature range	- 20 °C ... + 105 °C
Maximum conductor resistance (20 °C)	233 Ω/km	Cable materials	
Minimum insulation resistance (20 °C)	1 MΩ/km	Conductor	7 x 0.13 mm stranded tinned copper
Nominal differential impedance (TDR)	85 Ω	Insulation (except 50 pairs) (for 50 pairs)	PVC Ø 0.62 mm PVC Ø 0.65 – 0.80 mm
Nominal differential capacitance (1 kHz)	110 pF/m	Shield	Tinned copper braid, covering ≥ 80 %
		Jacket	PVC
		Flammability rating	IEC 332-1
		Sheath marking	AWM 2789 60°C 30V VW1 36963

* Except 60 90 050 6003: 150 m reel

Cables for insulation displacement termination

Identification	No. of wires	Part No.
Flat cable for IDC connector Pitch 0.635 mm AWG 30 Length per reel: 100 ft 30.48 m	50 68	60 90 050 6008 60 90 068 6008

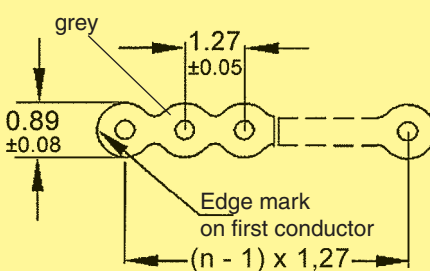
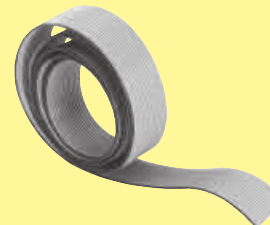
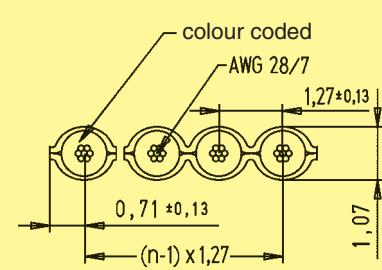
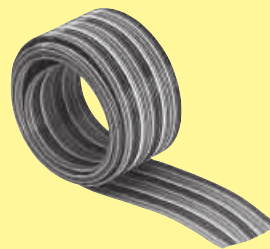
Drawing Dimensions in mm

	a	b	c	d
	± 0.25	± 0.05	± 0.2	± 0.05
50	31.75	0.635	31.12	0.68
68	43.20	0.635	42.55	0.68

The tolerance b is not cumulative

Technical characteristics	
Number of wires	50, 68
Voltage rating	150 V
Impedance	75 Ω
Nominal differential capacitance (1 kHz)	90 pF/m
Pitch	0.635 mm
UL style	2 678
Temperature range	- 30 °C ... + 105 °C
Materials	
Conductor	7 x 0.102 mm regular tinning or Z-bonding AWG 30
Insulation	PVC

Cables for insulation displacement termination

Identification	No. of contacts	Part No.	Drawing	Dimensions in mm	
Flat cable grey UL AWM-style 2651 CSA	6	09 18 006 700	  <p>Conductor material _____ Copper tinned Gauge _____ AWG 28/7 0.089 mm² Voltage rating _____ 300 V_{r.m.s.} Current rating _____ 1.3 A at 10 °C rise above ambient Capacity unbalanced _____ 45.9 pF/m Impedance unbalanced _____ 105 Ω Propagation delay _____ 4.9 ns/m nominal Insulation material _____ PVC Temperature rating (operating) _____ -20 °C ... + 105 °C Temperature rating (static) _____ -30 °C ... + 105 °C Flammability rating _____ Flame retardant VW-1 Insulation resistance _____ > 10⁴ MΩ/km</p>		
	9	09 18 009 700			
	10	09 18 010 700			
	14	09 18 014 700			
	15	09 18 015 700			
	16	09 18 016 700			
	18	09 18 018 700			
	20	09 18 020 700			
	24	09 18 024 700			
	25	09 18 025 700			
	26	09 18 026 700			
	28	09 18 028 700			
	34	09 18 034 700			
	37	09 18 037 700			
	40	09 18 040 700			
	50	09 18 050 700			
60	09 18 060 700				
64	09 18 064 700				
Length per reel					
30.48 m (100 feet)	1				
100 m (328 feet)	4				
Flat cable colour coded			  <p>Colour code sequence (in 10 steps) brown, red, orange, yellow, green, blue, violet, grey, white, black</p> <p>Conductor material _____ Copper tinned Gauge _____ AWG 28/7 0.089 mm² Voltage rating _____ 300 V_{r.m.s.} Conductor resistance _____ 221 mΩ/m Capacity unbalanced _____ 42.7 pF/m Impedance unbalanced _____ 105 Ω Inductance unbalanced _____ 0.68 μH/m Signal delay _____ 4.9 ns/m Insulation material _____ PVC Temperature rating _____ -20 °C ... + 105 °C Flammability rating _____ UL: VW 1 Insulation resistance _____ 10⁴ MΩ/km</p>		
	Length per reel				
	30.48 m (100 feet)				
	UL AWM-style 20 130				
	9	09 18 009 7005			
	10	09 18 010 7005			
	14	09 18 014 7005			
	15	09 18 015 7005			
	16	09 18 016 7005			
	20	09 18 020 7005			
	24	09 18 024 7005			
	25	09 18 025 7005			
	26	09 18 026 7005			
	34	09 18 034 7005			
	37	09 18 037 7005			
	40	09 18 040 7005			
50	09 18 050 7005				
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with screening (shielding)	9	09 18 009 70	□	6.86																																																
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	14	09 18 014 70	□	7.37																																																
	15	09 18 015 70	□	7.62																																																
UL listed PLCC CL2	16	09 18 016 70	□	7.87																																																
CSA certified AWM FT-1	20	09 18 020 70	□	8.38																																																
	25	09 18 025 70	□	9.14																																																
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	34	09 18 034 70	□	10.16																																																
	37	09 18 037 70	□	10.41																																																
	40	09 18 040 70	□	10.92																																																
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30.48 m (100 feet)	60	09 18 060 70	□*	13.21																																																
	64	09 18 064 70	□	13.46																																																
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Length per reel	50	09 18 050 70	□	11.43																																																
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	64	09 18 064 70	□	12.70																																																
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* Not normally kept in stock
 Important: always store reels vertically

