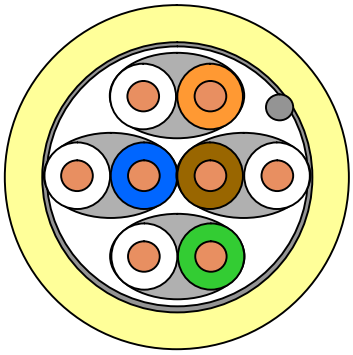
HVDI G3 800 **Installation Cable**	**J-02YS(St)H 4x2x0.58 PiMF** (AWG 23) 100Ω Home Cable Grade 3 NFC 93 531-14	**F/FTP**

The right to alterations reserved



Application: Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.5; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; **10GBase-T**
ISDN; TPDDI; ATM, CATV, Broadband Video, SOHO-Cabling

Standards: EIA/TIA 568A;
ISO/IEC 11801 2nd ed. 9/2002
EN 50173-1; EN 50288-4-1, IEC 61156-5,

Fire rating: IEC 60332-1

Construction

Conductor	bare copper wire Ø 0.58 mm (AWG 23)
Insulation	Foamskin Polyethylene, Ø 1.46 mm
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs to the core
Overall screen	Al-laminated plastic foil, tinned copper drain wire underneath
Sheath	LSHF, ivory
Marking	Draka Comteq Cable Multimedia - GRADE 3 - 4p F/FTP LSHF - NFC 93 531-14 - batch no. meter marking

Mechanical Properties

Bending radius		≥ 40 mm without load ≥ 80 mm with load
Temperature range,	during operation during installation	-20°C upto + 60°C 0°C upto + 50°C

Technical Data

Product code	Designation	Brand name	Outer diameter	Fire load		Weight	Copper content	Tensile force
			mm	MJ/km	kWh/m	kg/km		N
1021828	J-02YSCH 4x2x0.58 PiMF	HVDI G3 800	7.5	642	0.178	56	23.4	110

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Electrical Properties (at 20°C ± 5°C)

DC loop resistance	≤ 165 Ω /km			
Resistance unbalance	≤ 2%			
Insulation resistance (500 V)	≥ 2000 MΩ *km			
Capacitance at 800 Hz	Nom. 43 nF/km			
Capacitance unbalance (pair to ground)	≤ 1500 pF/km			
Characteristic impedance (1-100 MHz)	(100 ± 15) Ω			
(100 - 250) MHz	(100 ± 18) Ω			
(250 - 600) MHz	(100 ± 25) Ω			
(600 - 1000) MHz	(100 ± 30) Ω			
Nominal velocity of propagation	Approx. 79 %			
Propagation delay	≤ 427 ns/100m			
Delay skew	≤ 12 ns/100m			
Test voltage (DC, 1 min) Core/Core and Core/Screen	1000 V			
Screening characteristics	1 MHz	10 MHz	30 MHz	100 MHz
Transfer Impedance (mΩ /m)	50	100	200	1000

Nominal transmission characteristics acc. to Grade 3 (at 20 °C)

f (MHz)	**Attenuation** (dB/100m)	**NEXT** (dB)	**PS-NEXT** (dB)	**ACR** (dB/100m)	**PS-ACR** (dB/100m)	**ELFEXT** (dB/100m)	**PS-ELFEXT** (dB/100m)	**Return loss** (dB)
1	2.0	117	114	115	112	105	103	20
4	3.6	117	114	113	110	93	91	23
10	5.7	117	114	112	109	85	83	25
16	7.2	114	111	107	104	81	79	25
20	8.1	113	110	105	102	79	77	25
31.2	10.1	110	107	100	97	75	73	24
62.5	14.5	105	102	91	88	69	67	22
100	18.5	102	99	84	81	65	63	20
125	21.1	101	98	80	77	63	61	19
155.5	23.4	100	97	76	73	61	59	19
175	25.1	99	96	74	71	60	58	18
200	26.8	98	95	71	68	59	57	18
250	30.1	96	93	66	63	57	55	17
300	33.0	95	92	62	59	55	53	17
450	42.6	93	90	50	47	52	50	17
600	49.0	91	88	42	39	49	47	17
1000	63.3	87	84	24	21	45	43	