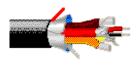
Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1408R Multi-Conductor - CMR Rated Cable



For more Information please call

1-800-Belden1



Description:

24 AWG stranded (7x32) TC conductor, polyolefin insulation, individually shielded Beldfoil® (100% coverage) numbered/color-coded PVC jackets, jackets and shields bonded to strip simultaneously, overall Beldfoil shield and 18 AWG TC drain wire.

Physical Characteristics (Overall)
Conductor
AWG:
Pairs AWG Stranding Conductor Material Dia. (in.) 4 24 7x32 TC - Tinned Copper .024
Insulation
Insulation Material:
Insulation Material Dia. (in.)
PO - Polyolefin 0.40
Inner Shield Inner Shield Material:
Inner Shield Trade Name Type Inner Shield Material Coverage (%)
Beldfoil® Tape Aluminum Foil-Polyester Tape 100
Inner Shield Drain Wire AWG:
AWG
24
Inner Shield Drain Wire Stranding: 7x32
Inner Shield Drain Wire Conductor Material: TC - Tinned Copper
Inner Jacket
Inner Jacket Material:
Inner Jacket Material Nom. Dia. (in.)
PVC - Polyvinyl Chloride 111
Outer Shield
Outer Shield Material:
Outer Shield Trade Name Type Outer Shield Material Coverage (%) Beldfoil® Tape Aluminum Foil-Polyester Tape 100
Outer Shield Drain Wire AWG:
AWG Stranding Drain Wire Conductor Material
18 7x26 TC - Tinned Copper
Outer Jacket
Outer Jacket Material:
Outer Jacket Material
PVC - Polyvinyl Chloride
Outer Jacket Ripcord: Yes
Overall Cable
Overall Cabling Color Code Chart:
Number Color 1 Brown

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1408R Multi-Conductor - CMR Rated Cable

Durange Ourange Ourange Ourange Ourange 0.346 in. Pair Color Code Chart: Image Color Code Chart: Image Color Chart Color Code Chart: Image Color Chart Code Chart:	2 Red	
Overall Nominal Diameter: 0.346 in. Pair Protection: Pair Free diameter Pair Control diameter		
Pair Pair Color Code Chart: Number Color 2 Pair Lay Length & Direction: Multicate Color (1,150 - 0,000) Operating Temperature Range: -30°C To +75°C Buk Cable Weight: 66 lbs/1000 ft. Max. Recommended Pulling Tension: 88 lbs. Min. Bend Radius (Install)/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Specification: CLUL Specification: CMR CEC/CULJ Specification: CMR EU Directive 2002/95/EC (RelS): Yes MI Order May (China RoHS): Yes MI Order May (China RoHS): Yes Flame Test: UL1666 Riser CS Flame Test: F14 Plenum (VN): No Element Color Non-Characteristic mpedance: Impedance (Omminetic)	4 Yellow	
Pair Lay Code Code Chart: 1 Code Code Chart 1 Code Code Chart 1 Code Code Chart Pair Lay Length & Direction:: East Code Chart Code Chart Coperating Temperature Range: -30°C To +75°C Buik Cable Weight: 66 fbs/1000 ft. Max. Recommended Pulling Tension: 68 lbs. Min. Bond Radius (Install/Minor Axis: 3 500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs MEC(UL) Specification: CMR CEC/C(UL) Specification: CMR EU Directive 2002/35/EC (ELV): Yes EU Directive 2002/35/EC (RoHS): Yes EU Directive 2002/35/EC (RoHS): Yes EU Directive 2003/11/EC (GFR): Yes Flame Test: UL1666 Riser CAP Prog S (C) for Wins Cable): Yes Flame Test: FI4 Plenum (NN): No Eurocharcestrice Impedance: Fi4 Plenum (NN): No Eurocharcestrice Impedance: Fi4 Plenum (NN): No Nom. Charcacteristic Impedances:	Overall Nominal Diameter:	0.346 in.
Number Color 2 Pair Lay Langth & Direction: 17:0 0.000 17:0 0.000 17:0 0.000 17:0 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.00000 0.000000 0.000000000 0.00000000000000000000000000000000000		
Pair Lay Length & Direction:: back b		
Pair Lay Length & Direction: Image: Standard S		
Inclusion (run) Toxistant (unisating framestature Range: -30°C To +75°C Bulk Cable Weight: 66 lbs/1000 ft. Max. Racommended Pulling Tension: 88 lbs. Min. Bend Radius (install)/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMR EU Directive 2000/57/EC (ELV): Yes EU Directive 2000/57/EC (ReHS): Yes EU Directive 2003/FC (WEEE): Yes EU Directive 2003/FFC (WEEE): Yes EU Directive 2003/FC (WEEE): Yes EU Directive 2003/FI/EC (BFR): Yes EU Directive 2003/FI/EC (WEEE): Yes MID order #39 (China RoHS): Yes U.F flame Test: UL flame Test: U.F flame Test: FI4 Plenum (YN): No Plenum (YN): No Nom. Characteristic Ingedance: Non Inductance	2 Black	
1730 0.900 Mechanical Characteristics (Overall) Operating Temperature Range: -30°C To +75°C Bulk Cable Weight: 66 fbs/1000 ft. Max. Recommended Pulling Tension: 88 fbs. Min. Band Radius (Install)/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC(/UL) Specification: CMR CEC/C(/UL) Specification: CMG EU Directive 2000/95/EC (ELV): Yes EU Directive 2000/95/EC (RoHS): Yes EU Directive 2000/96/EC (WEEE): Yes Flame Test: UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum (YAN): No Electrical Characteristics (Overall) No Mictaance (MMI) No Electrical Characteristics (Overall) No Nom. Capacitance Communication: No Mictaance (MMI)		
Operating Temperature Range: -30°C To +75°C Bulk Cable Weight: 66 lbs/1000 ft. Max. Recommended Pulling Tension: 88 lbs. Min. Bend Radius (Install)/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMG EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU Directive 2002/95/EC (RoHS): Yes EU Directive 2002/96/EC (WEEE): Yes EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes MII Order #39 (China RoHS): Yes Flame Test: UL 1666 Riser CA From 55 (C) for Wire & Cable): Yes Fleurun/Non-Plenum Fleurun/Non-Plenum Pleurun/Non-Plenum No Pleurun/Non-Plenum Non. Characteristic Impedance: Modamedance (Offm) No Nom. Characteristic Impedance: No		
Operating Temperature Range: -30°C To +75°C Bulk Cable Weight: 66 lbs/1000 ft. Max. Recommended Pulling Tension: 88 lbs. Min. Bend Radius (Install)/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMG EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU Directive 2002/95/EC (RoHS): Yes EU Directive 2002/96/EC (WEEE): Yes EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes MII Order #39 (China RoHS): Yes Flame Test: UL 1666 Riser CA From 55 (C) for Wire & Cable): Yes Fleurun/Non-Plenum Fleurun/Non-Plenum Pleurun/Non-Plenum No Pleurun/Non-Plenum Non. Characteristic Impedance: Modamedance (Offm) No Nom. Characteristic Impedance: No		
Buik Cable Weight: 66 lbs/1000 ft. Max. Recommended Pulling Tension: 88 lbs. Min. Bend Radius (Install)/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMR CEC/C(UL) Specification: CMG EU Directive 2000/35/EC (ELV): Yes EU Directive 2002/35/EC (RoHS): Yes EU Directive 2002/36/EC (WEEE): Yes EU Directive 2002/36/EC (WEEE): Yes EU Directive 2002/36/EC (WEEE): Yes Flame Test UL 1666 Riser CSA Flame Test: Non. Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Mm)		
Max. Recommended Pulling Tension: 88 lbs. Min. Bend Radius (Install)/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMG EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2000/53/EC (RoHS): Yes EU Directive 2000/53/EC (RoHS): Yes EU Directive 2000/54/EC (RoHS): Yes EU Directive 2000/54/EC (RoHS): Yes EU Directive 2000/54/EC (WEEE): Yes EU Directive 2000/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): No Some Some Some Some Some Some Mont. Characteristic (Diverall) Some Nom. Characteristic (Mittil)		-30°C To +75°C
Min. Bend Radius (Install)/Minor Axis: 3.500 in. Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC//C(UL) Specification: CMG EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2000/53/EC (RoHS): Yes EU Directive 2002/96/EC (RoHS): Yes EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (YIN): Plenum (YIN): No Electrical Characteristics (Overall) Non. Nom. Characteristic Impedance: Impedance (Dhing) 50 Nom. Inductance (Dhing) 50 Nom. Characteristic Conductor to Conductor:	-	66 lbs/1000 ft.
Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMG EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2000/53/EC (RoHS): Yes EU Directive 2002/95/EC (RoHS): Yes EU Directive 2002/95/EC (WEEE): Yes EU Directive 2002/96/EC (WEEE): Yes EI Directive 2002/96/EC (WEEE): Yes EI Directive 2002/96/EC (WEEE): Yes Flame Test UL Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (Y/N): No EIectrical Characteristics (Overall) Nom. Characteristic Impedance: Impediace (DMM) 50 Nom. Inductance: Impediace (DMM) 50 Nom. Characteristic Impedance: Impediace (DMM) 50 Nom. Characteristic Im	Max. Recommended Pulling Tension:	88 lbs.
Applicable Standards & Environmental Programs NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMG EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU Directive 2002/95/EC (RoHS): Yes EU Directive 2002/95/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes MII Order #39 (China RoHS): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser UL Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): No So Non. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (pH/ff) Inductance (pH/ff) 18 Nom. Capacitance Conductor to Conductor: UL	Min. Bend Radius (Install)/Minor Axis:	3.500 in.
NEC/(UL) Specification: CMR CEC/C(UL) Specification: CMG EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes Flame Test VL 1666 Riser CA Prop 65 (CJ for Wire & Cable): Yes Flame Test: UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): No So Nom. Characteristics (Overall) Nom. Inductance: Impedance (Dhm) So Nom. Inductance: Inductance (µH)f1 18 Nom. Capacitance Conductor to Conductor: VC	Applicable Specifications and Agency Con	mpliance (Overall)
CEC/C(UL) Specification: CMG EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes EU Directive 2003/11/EC (BFR): Yes GA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum No Plenum (Y/N): No Nom. Characteristics (Overall) No Nom. Inductance: Inductance (ph/ff) 18 Mom. Capacitance Conductor to Conductor:		
EU CE Mark: Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test UL1666 Riser CSA Flame Test: UL1666 Riser CSA Flame Test: UL1666 Riser CSA Flame Test: Non. Plenum/Non-Plenum Plenum (Y/N): No Nom. Characteristics (Overall) Nom. Inductance: Inductance (uH/ft) 30 Nom. Capacitance Conductor to Conductor:	NEC/(UL) Specification:	CMR
EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test UL1666 Riser CSA Flame Test: UL1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (DHM) 18 Nom. Capacitance Conductor to Conductor:	CEC/C(UL) Specification:	CMG
EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (Y/N): Plenum (Y/N): No Impedance: Impedance: Impedance: Impedance: Impedance (up/ff)	EU CE Mark:	Yes
EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (Y/N): Non. Characteristic Impedance: Impedance (Ohm) 50 So Nom. Inductance: Inductance (µH/ft) 18 Nom. Capacitance Conductor to Conductor:	EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum No Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (0hm) 50 Nom. Inductance: Inductance (µH/ft) 18 Nom. Capacitance Conductor to Conductor:	EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser UL Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum No Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (0hm) 50 Nom. Inductance: Inductance (µH/ft) 18 Nom. Capacitance Conductor to Conductor:	EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
CA Prop 65 (CJ for Wire & Cable): Yes MII Order #39 (China RoHS): Yes Flame Test UL 1666 Riser CSA Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum No Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) 18 Nom. Capacitance Conductor to Conductor:	EU Directive 2002/96/EC (WEEE):	Yes
Mil Order #39 (China RoHS): Yes Flame Test UL 1666 Riser UL Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum No Plenum (Y/N): No Electrical Characteristics (Overall) No Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) .18 Nom. Capacitance Conductor to Conductor: Vomune Conductor to Conductor	EU Directive 2003/11/EC (BFR):	Yes
Flame Test UL 1666 Riser UL Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum No Plenum (Y/N): No Electrical Characteristics (Overall) No Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) .18 Nom. Capacitance Conductor to Conductor: Konductor to Conductor	CA Prop 65 (CJ for Wire & Cable):	Yes
UL Flame Test: UL 1666 Riser CSA Flame Test: FT4 Plenum/Non-Plenum No Plenum (Y/N): No Electrical Characteristics (Overall) No Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ff) 18 Nom. Capacitance Conductor to Conductor: V	MII Order #39 (China RoHS):	Yes
CSA Flame Test: FT4 Plenum/Non-Plenum Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) 18 Nom. Capacitance Conductor to Conductor:	Flame Test	
Plenum/Non-Plenum Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) .18 Nom. Capacitance Conductor to Conductor:	UL Flame Test:	UL1666 Riser
Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) .18 Nom. Capacitance Conductor to Conductor:		FT4
Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) .18 Nom. Capacitance Conductor to Conductor:		
Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (µH/ft) .18 Nom. Capacitance Conductor to Conductor:	Plenum (Y/N):	No
Impedance (Ohm) 50 Nom. Inductance: Inductance (μΗ/ft) .18 Nom. Capacitance Conductor to Conductor:		
50 Nom. Inductance: Inductance (µH/ft) .18 Nom. Capacitance Conductor to Conductor:		
Inductance (μΗ/ft) .18 Nom. Capacitance Conductor to Conductor:		
.18 Nom. Capacitance Conductor to Conductor:	Nom. Inductance:	
Nom. Capacitance Conductor to Conductor:		
(Canacitance (nF/ff)	Nom. Capacitance Conductor to Conductor: Capacitance (pF/ft)	
31		

Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/ft)

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1408R Multi-Conductor - CMR Rated Cable

58
Nominal Velocity of Propagation:
VP (%)
66
Nom. Conductor DC Resistance:
DCR @ 20°C (Ohm/1000 ft)
23.3
Nominal Outer Shield DC Resistance:
DCR @ 20°C (Ohm/1000 ft)
6
Ind. Pair Nominal Shield DC Resistance @ 20 15.900 Ohm/1000 ft
Deg. C:
Max. Operating Voltage - UL:
Voltage
300 V RMS
Max. Recommended Current:
Current
1.05 Amps per conductor @ 25°C

Notes (Overall)

Notes: Pair jackets and shields bonded so both strip simultaneously. Beldfoil® provides high reliability with ease of termination.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1408R 0101000	1,000 FT	73.000 LB	BLACK	С	4 #24 PR BFS PVC FS PVC
1408R 010500	500 FT	36.000 LB	BLACK PRINT "T19"	С	4 #24 PR BFS PVC FS PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-18-2008

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