

# 9774 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information please call

1-800-Belden1



#### **General Description:**

18 AWG stranded (19x30) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 20 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)	
Conductor AWG:	
# Pairs AWG Stranding Conductor Material	
6 18 19x30 TC - Tinned Copper	
Total Number of Conductors:	12
Insulation Insulation Material:	
Insulation Material Wall Thickness (mm)	
PP - Polypropylene 0.483	
Inner Shield Inner Shield Material:	
	erage (%)
Beldfoil® (Z-Fold®)         Tape         Aluminum Foil-Polyester Tape         100	
Inner Shield Drain Wire AWG:	
AWG	
20	
Inner Shield Drain Wire Stranding:	Stranded
Inner Shield Drain Wire Conductor Material:	TC - Tinned Copper
Outer Jacket Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (mm)	
PVC - Polyvinyl Chloride 1.321	
Overall Cable	
Overall Nominal Diameter:	14.224 mm
	17.227 (10)
Pair Pair Color Code Chart:	
Number Color	
1 Black & Red	
2 Black & White	
3 Black & Green	
4 Black & Blue	
5 Black & Yellow	
6 Black & Brown	
Pair Lay Length & Direction:	
Lay Length (mm)Twists (twist/m)Direction44.45022.639Left Hand	
44.400 22.000 Ebit Hand	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	235.136 Kg/Km
Max. Recommended Pulling Tension:	1574.663 N
Min. Bend Radius/Minor Axis:	146.050 mm

# **Detailed Specifications & Technical Data**



# METRIC MEASUREMENT VERSION

# 9774 Multi-Conductor - Audio, Control and Instrumentation Cable

NEC Articles:     000       CCOC(UL) Specification:     CM       AM Specification:     UL Skyle 2019 (00 V 80°C)       EU Directive 20116GEU (NOHS II):     Yes       EU CE Mark:     Yes       EU Directive 20026GEC (NetBS):     Yes       Tem Test:     UL 1885 UL Loading       CA Prop 65 (C) for Wire & Cablo):     Yes       Tem Test:     UL 1885 UL Loading       CA Prop 65 (C) for Wire & Cablo):     Yes       Suitability     Suitability       Suitability     No       No:     No       Charactristics (Overall)       No:       No:       No:       Charactristic pfing       Suitability       Su	WIII) Creation:	
CEC/CIUL) Specification:     CM       AVM Specification:     UL. Style 2919 (20 V 80°C)       EU Directive 2019/SEC (ROHS):     Yes       EU Directive 2001/SEC (ELV):     Yes       EU Directive 2002/SEC (ROHS):     Yes       CA Prop 55 (CJ for Wire & Cable):     Yes       Hu Frame Test     UL feats L Loading       CA Frame Test:     UL feats UL Loading       CA Frame Test:     UL feats UL Loading       CA Frame Test:     UL feats UL Loading       CA Frame Test:     Ves       Visitability     No       Suitability     No       Suitability     No       Characteristics (Overall)     No       Con. Characteristic Impedance:     Frame Test:       Impedance (Diff)     No       Suitability     No       Suitability     No       Suitability     No       Suitability     No       Suitability     No       Suitability	JUL) Specification:	CM
AWM Specification:     UL Skyle 2919 (30 V 80'C)       EU Drective 2011/65/EU (ROHS II):     Yes       EU Drective 2003/SIEC (EU/S):     Yes       EU Drective 2003/SIEC (ROHS):     Yes       EU RoHS Compliance Date (mnidd/yyyy):     0101/2004       EU Drective 2003/SIEC (ROHS):     Yes       EU Drective 2003/SIEC (WEED):     Yes       EU Drective 2003/SIEC (ROHS):     Yes       EU Drective 2003/SIEC (WEED):     Yes       EU Drective 2003/SIEC (CMEED):     Yes       CA Prop 65 (C) for Wire & Cable):     Yes       MI Order #39 (China RoHS):     Yes       UL Flame Test:     UL 1085 UL Loading       GSA Flame Test:     UL 1085 UL Loading       UF Lame Test:     UL 1085 UL Loading       Stability - Indoor:     Yes       Plenum (Yn):     No       Ion: Characteristic Impedance:     FT1       Stability - Indoor:     Yes       Plenum (Yn):     No       Ion: Characteristic Impedance:     FT1       Stability - Indoor:     Yes       Plenum (Yn):     No       Ion: Characteristic Impedance:     FT1       Stability - Indoor:     Yes       Ion: Characteristic Impedance:     FT1       Ion: Characteristic Impedance:     FT1       Ion: Characteristic Impedance:     FT1	; Articles:	800
EU Directive 2014/85/EU (ROHS II): Yes   EU CE Mark: Yes   EU Directive 2003/85/EC (EUY): Yes   EU Directive 2003/85/EC (ROHS): Yes   CA Pop 65 (CJ for Wire & Cable): Yes   III Order 83 (China RoHS): Yes   Sat Flame Test: UL 1685 UL Loading   CSA Flame Test: UL 1685 UL Loading   CSA Flame Test: Ves   Istability - Indoor: Yes   Yes Yes   Plonum (YIN): No   Ion Characteristics (Overall)   Ion: Apactaristic Impedance:   Impedance (Offm)   (So Sole   Ion: Capacitance Conductor to Conductor:   Capacitance (Offm)   (Sole   Ion: Capacitance (Offm)   (Sole   Ion: Capacitance (Offm)   (Sole   Ion: Capacitance (Offm)   (Sole   Ion: Capacitance (Offm)   (Sole   (Sole   Ion: Capacitance (Offm)   (Sole   Ion: Capacitance (Sole)   (Sole   Ion: Capacitance (Sole) </td <td>:/C(UL) Specification:</td> <td>СМ</td>	:/C(UL) Specification:	СМ
EU CE Mark:         Yes           EU Directive 2002/55/EC (RoH5):         Yes           MI Order #30 (China RoH5):         Yes           With Fame Test:         UL 1685 UL Loading           CSA Flame Test:         FT1           Value Test:         FT1           Value Test:         Yes           Plenum (Y/N):         No           Interctive El Directive 2004/EF (Corrall)         No           Conc. Characteristics (Overall)         No           Non. Characteristics (Doverall)         No           Son Son         Son Son Son           Son Son Son         Son Son Son Son Son Son Son Son Son Son	N Specification:	UL Style 2919 (30 V 80°C)
EU Directive 2000/SMEC (ELV):         Yes           EU Directive 2002/SMEC (RoHS):         Yes           EU Reference Control (MEEE):         Yes           EU Directive 2002/SMEC (WEEE):         Yes           EU Directive 2002/SMEC (WEEE):         Yes           CA Prop 56 (CJ for Wire & Cable):         Yes           Mill Order #39 (China RoHS):         Yes           LE Hame Test:         UL Heads UL Leading           CSA Flame Test:         FT1           Suitability - Indoor:         Yes           Suitability - Indoor:         Yes           Plenum (YM):         No           Verson:         Yes           Suitability - Indoor:         Yes           Intercerristic (Doverall)         No           Suitability - Indoor:         Yes           Plenum (YM):         No           Intercerristic (Doverall)         No           Solidability - Indoor:         Yes           Interceristic (Doverall)         Solidability - Indoor:           Solidability - Indoor:         No           Solidability - Indoor:         Solidability - Indoor:           Solidability - Indoor:         No           Solidability - Indoor:         Solidability - Indoor:           Solidability - Indoor:	Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2002/95/EC (RoHS):     Yes       EU Directive 2002/95/EC (WEEE):     Yes       Mill Order 958 (CJ for Wire & Cable):     Yes       Mill Order 958 (CJ for Wire & Cable):     Yes       Mill Order 958 (CJ for Wire & Cable):     Yes       Statem Test:     UL 1685 UL Loading       CSA Frame Test:     UL 1685 UL Loading       Suitability     Yes       Suitability - Indoor:     Yes       Plenum (YN):     Yes       No     Yes       Plenum (YN):     No       Interctristic Impedance:     Sole       Impediate (Infm)     Yes       Sole     Sole       Interctristic Impedance:     Sole       Impediate (Infm)     Yes       Sole     Sole       Interctristic Impedance:     Sole       Impediates (Infm)     Yes       Sole     Sole       Interctristic Impedance:     Sole       Impediates (Infm)     Yes       Sole     Sole       Interctristic Impedance:     Sole       Impediates (Infm)     Sole       Sole     Sole       Interctristic Impedance:     <	CE Mark:	Yes
EURAHS Compliance Date (mm/dd/yyyy):       01/01/2004         EU Directive 2002/94/EC (WEEE):       Yes         EU Directive 2002/94/EC (BFR):       Yes         CA Prop 65 (CJ for Wire & Cable):       Yes         Mill Order #39 (China RoHS):       Yes         WE Flame Test:       UL 1855 UL Loading         CA Flame Test:       UL 1855 UL Loading         CA Flame Test:       FT1         Suitability       Indoor:         Yes       Yes         Plenum (YN):       Yes         No       Yes         Plenum (YN):       No         Plenum (YN):       No         Plenum (YN):       No         Indicates (UMM)       So         So       So         So       So         Conductor to Conductor:       So         So       So	Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/54/EC (WEEE): Yes   EU Directive 2003/11/EC (BFR): Yes   C A Prop 55 (CJ for Wire & Cable): Yes   Mill Ordor #39 (China RoHS): Yes   UL Flame Test: UL 1685 UL Loading   CSA Flame Test: UL 1685 UL Loading   CSA Flame Test: UL 1685 UL Loading   Suitability No   Plenum (Y/N): No Plenum (Y/N): No Plenum (Y/N): No Plenum (V/N): Plenum (V/N): No Plenum (V/N): Plenum (	Directive 2002/95/EC (RoHS):	Yes
EU Directive 2003/11/EC (BFR):         Yes           CA Prop 65 (CJ for Wire & Cabio):         Yes           MI Order #39 (China RoHS):         Yes           Item Test         UL 1685 UL Loading           CSA Fiame Test:         UL 1685 UL Loading           Suitability - Indoor:         Yes           Suitability - Indoor:         Yes           Suitability - Indoor:         Yes           Plenum (YA):         Yes           Octored Characteristic Source         No           Control Characteristic Source         No           Control Characteristic Impedance:         No           Modelines Conductor to Conductor:         Capacitance (pf/m)           0.058         Source           Mon. Characteristic (pf/m)         Source           10.454         Source           Conductor to Conductor & Shield:         Capacitance (pf/m)           0.455         Source           Conductor DC Resistance:         Virtige Decemption:           VP 166         Source         Source           Conductor DC Resistance:         Virtige Decemption:           VP 166         Source         Virtige Decemption:           10.3994         Virtige Decemption:         Virtige Decemption:	RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
CA Prop 65 (CJ for Wire & Cable):     Yes       Mill Order #39 (China RoHS):     Yes       Itame Test     UL:1685 UL Loading       CSA Flame Test:     UL:1685 UL Loading       CSA Flame Test:     UL:1685 UL Loading       Satability - Indoor:     Yes       Suitability     Suitability       Suitability - Indoor:     Yes       Plenum (YN):     No       Octor Cat Characteristic (Overall)     No       North:     No       Identification     Solidability       Solidability     Solidab	Directive 2002/96/EC (WEEE):	Yes
MII Order #39 (China RoHS): Yes   Flame Test: UL 1685 UL Loading   CSA Flame Test: FT1   Suitability Suitability   Suitability Yes   Plenum (Y/N): No   Von. Characteristics (Overall)   Nom. Inductance: Impedance:   Inductance (µIm) So   So So    Nom. Capacitance Conductor to Conductor:   Capacitance (GF/m)   88.43   Nom. Capacitance Conductor & Shield:   Capacitance (GF/m)   180.455   Nom. Conductor DC Resistance:   VP (%)   B   Construction Conductor & Shield:   Capacitance (GF/m)   180.455   Nom. Conductor DC Resistance:   VP (%)   B   Constructor DC Resistance:   VP (%)   B   Constructor DC Resistance:   VP (%)   B   Constructor DC Resistance:   VP (%)   B   Nom. Conductor DC Resistance:   VP (%)   B   Constructor DC Resistance:   VP (%)   B   B   Constructor DC Resistance:   VP (%)   B   B   Constructor DC Resistance:   C	Directive 2003/11/EC (BFR):	Yes
Identified       UL 1685 UL Loading         CSA Flame Test:       FT1         Suitability       FT1         Suitability       Yes         Plenum (YiN):       No         Plenum (YiN):       No         Impedance:       Impedance:         Suitability       Suitability         Nom. Inductance:       Impedance:         Impedance:       Impedance:         Suitability       Suitability         Nom. Capacitance Conductor to Conductor:       Suitability         Suitability       Suitability         Nom. Capacitance (pF/m)       Suitability         Suitability       Suitability         Suitability       Suitability         Suitability       Suitability         Suitability       Suitability         Suitabil	Prop 65 (CJ for Wire & Cable):	Yes
UL Flame Test:         UL 1885 UL Loading           GSA Flame Test:         FT1           Suitability         Suitability           Suitability         Yes           Plenum (Yik):         No           Plenum (Yik):         No           Ctrical Characteristics (Overall)         No           Nom. Characteristics (Overall)         No           Nom. Characteristic Impedance:         Impedance (Ohm)           50         Suitability           Sum. Inductance (JHM)         Suitability           0.59058         Suitability           Nom. Capacitance (GP/m)         Suitability           64         Suitability           Nom. Capacitance (GP/m)         Suitability           66         Suitability           Nom. Conjustor V Propagation:         Yes           VPC (Suitage VC (Ohm/km)         Suitability           20 9984         Suitability           Inductance (Pf/m)         Suitability           66         Suitability           Suitability         Suitability           Suitability         Suitability           Suitability         Suitability           Suitability         Suitability           Suitability         Suitability	Order #39 (China RoHS):	Yes
CSA Flame Test:       F11         Suitability       suitability         Suitability       Yes         Plenum/Non-Plenum       Plenum (YiN):         Plenum (YiN):       No         Capacitance Cohm       Solitability         Solitatorical Characteristics (Overall)       Non         Vom. Characteristic Impedance:       Impedance (Ohm)         Sol       Solitance (Ohm)         Solitance Conductor to Conductor:       Capacitance (pfim)         Solitance (opfim)       Solitability         Solitance Conductor to Conductor & Shield:       Capacitance (pfim)         Solitability       Solitability	est	
Suitability - Indoor: Yes Plenum/Non-Plenum Plenum (YN): No Clectrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 50 Nom. Inductance: Inductance (pf/m) 0.59058 Nom. Capacitance Conductor to Conductor: Capacitance Conductor to Conductor: Capacitance (pf/m) 89.43 Nom. Capacitance (pf/m) 180.455 Nominal Velocity of Propagation: VP (%) Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 20.3994 Nat. Coperating Voltage - UL: Voltage Description	Flame Test:	UL1685 UL Loading
Suitability - Indoor:         Yes           Plenum/Non-Plenum         No           Plenum (Y/N):         No           Contracteristics (Overall)           Contracteristic Impedance:           Impedance (Ohm)         So           Som. Inductance:         Impedance (Ohm)           0.50058         Som. Inductance (µHm)           0.50058         Som. Capacitance Conductor to Conductor:           Capacitance (pFm)         So           0.50058         Som. Capacitance Conductor to Conductor & Shield:           Capacitance (pFm)         So           0.50059         Som. Capacitance Conductor & Shield:           Capacitance (pFm)         Som. Capacitance Conductor & Shield:           Capacitance (pFm)         Som. Som. Shield:           180.455         Som. Conductor DC Resistance:           Vmm.         Som. Conductor DC Resistance:           DCR 20°C (Ohm/Km)         Som. Som. Shield:           20.5984         Som. Shield DC Resistance @ 20 Deg. C:         27.232 Ohm/km           Max: Operating Voltage - UL:         Yotage Decription	Flame Test:	FT1
Plenum (Yn):       No         Idectrical Characteristics (Overall)         tom: Characteristic Impedance:         Impedance (Ohm)         30         som: Inductance:         Inductance (µ/m)         0.59058         som: Characteristic To Conductor to Conductor:         Capacitance (µ/m)         0.43         Som: Capacitance (pf/m)         10.455         torm: Conductor DC Resistance:         VP (%)         66         som: Conductor DC Resistance @ 20 Deg. C:       27.232 Ohm/km         tax: Operating Voltage - UL:         Voltage       Description	ity	
Plenum (Y/N):       No         Intercial Characteristics (Overall)         Iom: Characteristic Impedance:         Impedance (Ohm)         50         Iom: Inductance:         Inductance (µHm)         0.50058         Iom: Charactaristic To Conductor to Conductor:         Capacitance Conductor to Conductor:         Capacitance (pFm)         08.43         Iom: Capacitance (pFm)         100.455         Iom: Capacitance (pFm)         06.66         Iom: Capacitance (pFm)         100.455         Iom: Capacitance (pFm)         100.455         Iom: Conductor D C Resistance:         VP (%)         0.9984         Iom: A: Operating Voltage - UL:         Variating Voltage - UL:         Voltage Description	ability - Indoor:	Yes
lectrical Characteristics (Overall) Nom. Characteristic Impedance:	/Non-Plenum	
om. Characteristic Impedance:         Impedance (Ohm)         50         0m. Inductance:         Inductance (µH/m)         0. 59058         0m. Capacitance Conductor to Conductor:         Capacitance (pF/m)         98.43         0m. Capacitance (pF/m)         180.455         om. Capacitance (pF/m)         180.455         om. Conductor Propagation:         VP (%)         om. Conductor DC Resistance:         DCR @ 20 °C (Ohm/km)         20.9984         Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:       27.232 Ohm/km         ax. Operating Voltage - U::         Voltage       Description	ium (Y/N):	No
Impedance (Ohm)         50         iom. Inductance:         Inductance (µH/m)         0.59058         iom. Capacitance (onductor to Conductor:         Capacitance (pF/m)         98.43         iom. Capacitance (ond. to Other Conductor & Shield:         Capacitance (pF/m)         180.455         iominal Velocity of Propagation:         VP (%         iom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         20.9984         Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:       27.232 Ohm/km         tax: Operating Voltage - UL:         Voltage       Description	al Characteristics (Overall)	
50           Iom. Inductance:           Inductance (µH/m)           0.59058           Iom. Capacitance Conductor to Conductor:           Capacitance (pF/m)           98.43           Iom. Capacitance Cond. to Other Conductor & Shield:           Capacitance (pF/m)           180.455           Iom. Inductor DC Resistance:           VP (%)           20.9984           Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:         27.232 Ohm/km           Iax. Operating Voltage - UL:           Voltage         Description		
Inductance         Inductance         0.59058         tom. Capacitance Conductor to Conductor:         Capacitance (pF/m)         88.43         tom. Capacitance Cond. to Other Conductor & Shield:         Capacitance (pF/m)         88.43         tom. Capacitance Cond. to Other Conductor & Shield:         Capacitance (pF/m)         180.455         tominal Velocity of Propagation:         VP (%)         66         tom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         20.9984         tax. Operating Voltage - UL:         Voltage       Description	lance (Ohm)	
Inductance (µH/m)   0.59058   Iom. Capacitance Conductor to Conductor:   Capacitance (pF/m)   98.43   Iom. Capacitance Cond. to Other Conductor & Shield:   Capacitance (pF/m)   180.455   Iominal Velocity of Propagation:   VP (%)   66   Iom. Conductor DC Resistance:   DCR @ 20°C (Ohm/km)   20.9984   Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:   27.232 Ohm/km   Nax. Operating Voltage - UL:   Voltage   Description	luctanco:	
0.59058   Nom. Capacitance Conductor to Conductor:   Capacitance (pF/m)   98.43   Nom. Capacitance cond. to Other Conductor & Shield:   Capacitance (pF/m)   180.455   Nominal Velocity of Propagation:   VP (%)   66   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/km)   20.9984   Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:   27.232 Ohm/km   Vatage   Description		
Capacitance (pF/m)   98.43   Nom. Capacitance Cond. to Other Conductor & Shield:   Capacitance (pF/m)   180.455   Nominal Velocity of Propagation:   VP (%)   66   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/km)   20.9984   Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:   27.232 Ohm/km   Max. Operating Voltage - UL:   Voltage   Description		
98.43         kom. Capacitance (pF/m)         180.455         kom	pacitance Conductor to Conductor:	
Capacitance (pF/m)         180.455         Iominal Velocity of Propagation:         VP (%)         66         Iom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         20.9984         Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:       27.232 Ohm/km         Max. Operating Voltage - UL:         Voltage       Description	;itance (pF/m)	
180.455         Vominal Velocity of Propagation:         VP (%)         66         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         20.9984         Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:       27.232 Ohm/km         Max. Operating Voltage - UL:         Voltage       Description		
Nominal Velocity of Propagation:         VP (%)         66         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         20.9984         Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:       27.232 Ohm/km         Max. Operating Voltage - UL:         Voltage       Description		
VP (%) 66 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 20.9984 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 27.232 Ohm/km Max. Operating Voltage - UL: Voltage Description		
Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 20.9984 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 27.232 Ohm/km Max. Operating Voltage - UL: Voltage Description		
DCR @ 20°C (Ohm/km) 20.9984 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 27.232 Ohm/km fax. Operating Voltage - UL: Voltage Description	]	
20.9984         Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:       27.232 Ohm/km         Iax. Operating Voltage - UL:         Voltage       Description		
lax. Operating Voltage - UL: Voltage Description		
Voltage Description		27.232 Ohm/km
	rating Voltage - UL:	
30V RMS UL AWM 2919	84 Pair Nominal Shield DC Resistance @ 20 Deg. C:	27.232 Ohm/km

#### Max. Recommended Current:

 Description
 Current

 10C Temperature Rise
 3.6 Amps per conductor @ 25°C ambient

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9774 060100	100 FT	17.800 LB	CHROME	С	6 FS PR #18 PP PVC
9774 0601000	1,000 FT	173.000 LB	CHROME	С	6 FS PR #18 PP PVC
9774 060500	500 FT	88.000 LB	CHROME	С	6 FS PR #18 PP PVC

# **Detailed Specifications & Technical Data**



#### METRIC MEASUREMENT VERSION

#### 9774 Multi-Conductor - Audio, Control and Instrumentation Cable

9774 0605000	5,000 FT	875.000 LB	CHROME	6 FS PR #18 PP PVC

Notes

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 08-06-2013

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