# **Detailed Specifications & Technical Data**



METRIC MEASUREMENT VERSION

## 9407 Multi-Conductor - 300V Power-Limited Tray Cable



For more Information please call

1-800-Belden1



### **General Description:**

22 AWG pairs stranded (7x30) tinned copper conductors, twisted pairs, PVC insulation, unshielded, PVC jacket.

Physical Characteristics (Overall) Conductor	
AWG: # Pairs AWG Stranding Conductor Material	
1         22         7x30         TC - Tinned Copper	
Total Number of Conductors:	2
Insulation Insulation Material:	
Insulation Material Wall Thickness (mm) Dia. (n	um)
PVC - Polyvinyl Chloride0.4321.575	
Outer Shield Material: Outer Shield Material Unshielded	
Outer Jacket	
Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (mm)	
PVC - Polyvinyl Chloride 0.940	
Outer Jacket Ripcord:	Yes
Outer Jacket Ripcord: Overall Cable	Yes
•	Yes 5.029 mm
Overall Cable	
Overall Cable Overall Nominal Diameter: Pair	
Overall Cable Overall Nominal Diameter: Pair Pair Color Code Chart: Number Color 1 Black & Red	
Overall Cable Overall Nominal Diameter: Pair Pair Color Code Chart: Number Color	
Overall Cable Overall Nominal Diameter: Pair Pair Color Code Chart: Number Color 1 Black & Red Pair Lay Length & Direction: Lay Length (mm) Twists (twist/m)	
Overall Cable Overall Nominal Diameter: Pair Pair Color Code Chart: Number Color 1 Black & Red Pair Lay Length & Direction: Lay Length (mm) Twists (twist/m) 50.8 19.686	
Overall Cable Overall Nominal Diameter: Pair Pair Color Code Chart: Number Color 1 Black & Red Pair Lay Length & Direction: Lay Length (mm) Twists (twist/m) 50.8 19.686 Mechanical Characteristics (Overall)	5.029 mm
Overall Cable Overall Nominal Diameter: Pair Pair Color Code Chart: Number Color 1 Black & Red Pair Lay Length & Direction: Lay Length (mm) Twists (twist/m) 50.8 19.686 Mechanical Characteristics (Overall) Operating Temperature Range:	5.029 mm -30°C To +105°C
Overall Cable Overall Nominal Diameter: Pair Pair Color Code Chart: Number Color 1 Black & Red Pair Lay Length & Direction: Lay Length (mm) Twists (twist/m) 50.8 19.686 Mechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating:	5.029 mm -30°C To +105°C 105°C

### Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs

# **Detailed Specifications & Technical Data**



## METRIC MEASUREMENT VERSION

## 9407 Multi-Conductor - 300V Power-Limited Tray Cable

UL Flame Test:     UL 1685 FT4 Loading       C(UL) Flame Test:     FT4       Suitability     Suitability - Indoor:     Yes       Suitability - Outdoor:     Yes       Suitability - Burial:     No       Sunlight Resistance:     Yes       Plenum/Non-Plenum     Yes       Plenum(Y/N):     No       Surface Printing (Overall)     No       Surface Printing (Overall)     No       Surface Printing (Overall)     No       Surface Offm)     Surface (Pfm)       90     Nom. Characteristic (Dyedance:       Impedance (Dhm)     Surface       90     Nom. Inductance:       Inductance (pfm)     Surface       85.306     Surface       Nom. Conductor DC Resistance:     Surface (pfm)       85.306     Surface       Nom. Conductor DC Resistance:     Surface (pfm)       43.215     Max. Operating Voltage - UL:	NEC/(UL) Specification:	CMG, ITC, PLTC
EU Directive 2011/65/EU (ROHS II): Yes EU CE Mark: Yes EU Directive 2002/95/EC (ELV): Yes EU Directive 2002/95/EC (ROHS): Yes EU Directive 2002/95/EC (ROHEE): Yes EU Directive 2002/95/EC (WEEE): Yes Flame Test UL Hame Test: UL 1685 FT4 Loading (QLL) Flame Test: Ves Suitability - Indoor: Yes Suitability - Indoor: Yes Suitability - Burial: No Sundight Resistance: Yes Plenum/(Non-Plenum Plenum (YN): No Surface Printing (Overall) Electrical Characteristic (Overall) Nom. Characteristic Impedance: Impedance (Wim) @ @ Nom. Inductance: Impedance (Wim) @ @ Nom. Characteristic Impedance: Impedance (Wim) @ @ Nom. Characteristic Impedance: Impedance (Wim) @ @ Nom. Characteristic Impedance: Impedance (Wim) @ Max. Recommended Current: Eurent Surface Original Surface (Conductor @ 25°C)	CEC/C(UL) Specification:	CMG
EU CE Mark: Yes EU Directive 2002/95/EC (ReIS): Yes Flame Test: UL 1665 FT4 Loading C(LL) Flame Test: UL 1665 FT4 Loading C(LL) Flame Test: UL 1665 FT4 Loading C(LL) Flame Test: Ves Suitability - Outdoor: Yes Suitability - Outdoor: Yes Suitability - Outdoor: Yes Suitability - Burial: No Suitability - Burial: No Suiface Printing (Overall) Electrical Characteristics (Overall) Non. Inductance impedance: Impedance (String 0.000 Sufface Printing (Overall) Non. Inductance impedance: Disso film So film	AWM Specification:	UL Style 2464 (300 V 80°C)
EU Directive 2000/53/EC (ELV):       Yes         EU Directive 2002/95/EC (RoHS):       Yes         EU RoHS Compliance Date (mm/d/yyyy):       0401/2005         EU Directive 2002/95/EC (WEEE):       Yes         EU Directive 2002/95/EC (WEEE):       Yes         EU Directive 2001/15/2 (ERP):       Yes         CA Prop 65 (CJ for Wire & Cable):       Yes         Mill Order #39 (China RoHS):       Yes         UL Flame Test:       UL 1685 FT4 Loading         C(LL) Flame Test:       FT4         Suitability       Yes         Suitability - Ourdoor:       Yes         Suitability - Ourdoor:       Yes         Suitability - Ourdoor:       Yes         Plenum (Yoh):       No         Plenum (Yoh):       No         Plenum (Yoh):       No         Suitability - Ourdoor:       Yes         Plenum (Yoh):       No         Suitability - Goverall)       Non         Corpacitance (frim)       No         Solidability - Suitability	EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2002/95/EC (RoHS):       Yes         EU RoHS Compliance Date (mm/dd/yyyy):       04/01/2005         EU Directive 2002/96/EC (WEEE):       Yes         MI Order #39 (China RoHS):       Yes         Flamo Test:       UL 1685 FT4 Loading         UL Flamo Test:       VIL 1685 FT4 Loading         G(UL) Flame Test:       FT4         Suitability - Indoor:       Yes         Suitability - Burlal:       No         Suitability - Burlal:       No         Suitability - Burlal:       No         Surface Printing (Overall)       Surface Printing (Overall)         Surface Printing (Overall)       Surface Printing (Overall)         Nom. Characteristic Impedance:       Impedance (DMM)         Impedance (DMM)       Surface (DMM)         0.8.306       Nom. Conductor to Conductor:         Capacteristic Impedance:       VER	EU CE Mark:	Yes
EU RoHS Compliance Date (mm/dd/yyyy):       04/01/2005         EU Directive 2003/11/EC (BFR):       Yes         EU Directive 2003/11/EC (BFR):       Yes         MI Order #39 (China RoHS):       Yes         MI Order #39 (China RoHS):       Yes         Flame Test:       UL 1685 FT4 Loading         C(IU.) Flame Test:       UL 1685 FT4 Loading         C(IU.) Flame Test:       UL 1685 FT4 Loading         Suitability - Indoor:       Yes         Suitability - Indoor:       Yes         Suitability - Joutdoor:       Yes         Suitability - Joutdoor:       Yes         Plenum/Non-Plenum       Plenum (YiN):         Non       Suifability (Overall)         Sufface Printing (Overall)       Non         Nom. Characteristics (Overall)       Non         Nom. Characteristics (Overall)       Non         Nom. Characteristic Impedance:       Impedance         Inductance (IVIM) (0.668001       Non         Nom. Capacitance Conductor to Conductor:       Capacitance (IVIM) (0.668001         Nom. Conductor DC Resistance:       Impedance         Impedance (IVIM) (0.668001       Non         Nom. Conductor DC Resistance:       Impedance         Impedance (IVIM) (0.668001       Sold RoMS)	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         Mill Order #39 (China RoHS):       Yes         Flame Test       UL Flame Test:         UL Flame Test:       UL 1685 FT4 Loading         C(UL) Flame Test:       FT4         Suitability       Suitability - Outdoor:         Yes       Suitability - Outdoor:         Suitability - Outdoor:       Yes         Suitability - Burial:       No         Surface Printing (Overall)       Nom. Characteristic Impedance:         Monocharacteristic Impedance:       Monocharacteristic Impedance:         Monocharacteristic Impedance:       Monocharacteristic Impedance:         Moscoperating Voltage - UL:       Virge 20°	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 1685 FT4 Loading         (CLU, Flame Test:       DL 1685 FT4 Loading         (CLU, Flame Test:       FT4         Suitability       Suitability - Indoor:         Suitability - Indoor:       Yes         Suitability - Outdoor:       Yes         Suitability - Burial:       No         Suitability - Contacter Stice (Overall)       No         Nom. Characteri	EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
CA Prop 65 (CJ for Wire & Cable):       Yes         Mill Order #39 (China RoHS):       Yes         Flame Test:       UL 1685 FT4 Loading         ULL Flame Test:       FT4         Suitability       Suitability - Indoor:         Suitability - Outdoor:       Yes         Suitability - Outdoor:       Yes         Suitability - Outdoor:       Yes         Suitability - Outdoor:       Yes         Suitability - Burial:       No         Sunlight Resistance:       Yes         Plenum/NOn-Plenum       Plenum/NOn-Plenum         Plenum/YON:       No         Surface Printing (Overall)       No         Surface Orimig       Nom. Characteristic (Overall)         Nom. Capacitance (pf/m)       Social Conductor to Conductor:         Capacitance (pf/m)       Social Conductor to Conductor:         Social Conductor DC Resistance:       Decega 20°C (Om/m)         Max. Operating Voltage - UL:       Voltage         Social Commended Current:       Current         Social Current:       Social Current:         Social Current:       Social Current:         Social Current:       Social Current:	EU Directive 2002/96/EC (WEEE):	Yes
Mill Order #39 (China RoHS):       Yes         Flame Test       UL Flame Test:       UL 1685 FT4 Loading         C(UL) Flame Test:       FT4         Suitability       Suitability         Suitability       Ves         Suitability - Judoor:       Yes         Suitability - Outdoor:       Yes         Suitability - Burial:       No         Sunlight Resistance:       Yes         Plenum (YiN):       No         Surface Printing (Overall)       Sufface Printing (Overall)         Electrical Characteristic Impedance:       Impedance (Ohm)         go       Nom. Characteristic Impedance:         Inductance (Ohm)       Sole         Inductance (Ohm)       Sole         Sole       Sole         Nom. Characteristic Impedance:       Inductance (Ohm)         Inductance (Ohm)       Sole         Sole       Sole         Nom. Conductor to Conductor to Conductor:       Capacitance (Ohm)         Sole       Sole         Nom. Conductor DR Resistance:       Impedance (Imm)         Sole       Sole         Sole       Sole         Sole       Sole         Sole       Sole         Sole       Sole	EU Directive 2003/11/EC (BFR):	Yes
Flame Test UL Flame Test: FT4 Suitability	CA Prop 65 (CJ for Wire & Cable):	Yes
UL Flame Test:     UL 1685 FT4 Loading       C(UL) Flame Test:     FT4       Suitability     Yes       Suitability - Outdoor:     Yes       Suitability - Outdoor:     Yes       Suitability - Outdoor:     Yes       Suitability - Burial:     No       Nom: Characteristic Impedance:     Impedance (Drim)       Suitability - Burial:     No       Nom: Conductor to Conductor:     Capacitance (Prim)       Suitability - Suita	MII Order #39 (China RoHS):	Yes
C(UL) Flame Test:     FT4       Suitability     Suitability - Indoor:       Yes     Suitability - Outdoor:       Suitability - Burial:     No       Sunlight Resistance:     Yes       Plenum/Non-Plenum     Plenum (YiN):       No     Surface Printing (Overall)       Surface Printing (Overall)     No       Surface Printing (Overall)     No       Sunductance:     Impedance:       Inductance:     Inductance:       Inductance:     Impediance Conductor to Conductor:       Capacitance (pfm)     83.06       Nom. Conductor DC Resistance:     DCR @ 20°C (Dim/km)       42.15     Max. Accommended Current:       Voltage     JU:       Voltage     Surface (PTM)       Saw Recommended Current:     Samps per conductor @ 25°C	Flame Test	
Suitability Suitab	UL Flame Test:	UL1685 FT4 Loading
Suitability - Indoor: Yes   Suitability - Outdoor: Yes   Suitability - Burial: No   Sunlight Resistance: Yes   Plenum/Non-Plenum Plenum (Y/N):   No Surface Printing (Overall)   Electrical Characteristics (Overall) Surface Printing (Overall)   Electrical Characteristics (Overall) Surface (Dim)   Nom. Characteristic Impedance: Impedance (Ohm)   90 Nom. Inductance:   Inductance (ut/m) Suface   0.68901 Nom. Capacitance Conductor to Conductor:   Capacitance (pf/m) Suface   85.306 Surface   Nom. Conductor DC Resistance: DCR @ 30°C (Ohm/km)   42.15 Max. Operating Voltage - UL:   Voltage Surface   Max. Recommended Current: Surface   Surface Current: Surface   Surface Current: Surface   Surface Current: Sufface	C(UL) Flame Test:	FT4
Suitability - Outdoor:       Yes         Suitability - Burial:       No         Sunlight Resistance:       Yes         Plenum/Non-Plenum       No         Plenum (Y/N):       No         Surface Printing (Overall)       Surface Printing (Overall)         Electrical Characteristics (Overall)       Non: Characteristic Impedance:         Impedance (Ohm)       90         90       Non: Inductance:         Inductance (µHm)       No         0.68901       Nom: Capacitance Conductor to Conductor:         Capacitance Conductor to Conductor:       Capacitance (pFim)         85.306       Max. Report Portion (Ohmukm)         49.215       Max. Recommended Current:         Current       Suff 20°C (Ohmukm)         5.8 Amps per conductor @ 25°C       25°C	Suitability	
Suitability - Burial:       No         Sunlight Resistance:       Yes         Plenum/Non-Plenum       No         Plenum (Y/N):       No         Surface Printing (Overall)       Surface Printing (Overall)         Electrical Characteristics (Overall)       No         Nom. Characteristic Impedance:       Impedance (Ohm)         So       So         Nom. Inductance:       Inductance (µHm)         0.88901       Nom. Capacitance Conductor to Conductor:         Capacitance (µHm)       So         Nom. Conductor DC Resistance:       Def @ 20°C (Ohm/km)         19.215       Max. Operating Voltage - UL:         Voltage 300 V RMS       Max. Recommended Current:         Current 5.8 Amps per conductor @ 25°C       So	Suitability - Indoor:	Yes
Sunlight Resistance:       Yes         Plenum/Non-Plenum       Plenum (Y/N):         Plenum (Y/N):       No         Surface Printing (Overall)       Electrical Characteristics (Overall)         Nom. Characteristic Impedance:       Impedance (Ohm)         So       So         Nom. Inductance:       Impedance (UHm)         D.68901       Nom. Capacitance Conductor to Conductor:         Capacitance Conductor to Conductor:       Capacitance (Chm)         85.306       Nom. Conductor DC Resistance:         DCR @ 20°C (On/km)       49.215         Max. Operating Voltage - UL:       Voltage 300 V RMS         Max. Recommended Current:       Current 5.8 Amps per conductor @ 25°C	Suitability - Outdoor:	Yes
Plenum/Non-Plenum         Plenum (Y/N):       No         Surface Printing (Overall)         Electrical Characteristics (Overall)         Nom. Characteristic Impedance:         Impedance (Ohm)         90         Nom. Inductance:         Inductance (µH/m)         0.68901         Nom. Capacitance Conductor to Conductor:         Capacitance (pF/m)         85.306         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         49.215         Max. Operating Voltage - UL:         Voltage 300 V RMS         Max. Recommended Current:         Current 5.8 Amps per conductor @ 25°C	Suitability - Burial:	No
Plenum (Y/N):       No         Surface Printing (Overall)         Electrical Characteristics (Overall)         Nom. Characteristic Impedance:         Impedance (Om)         90         Nom. Inductance:         Inductance (µH/m)         0.68901         Nom. Capacitance Conductor to Conductor:         Capacitance (pF/m)         85.306         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         49.215         Max. Operating Voltage - UL:         Voltage 300 V RMS         Max. Recommended Current:         Current 5.8 Amps per conductor @ 25°C	Sunlight Resistance:	Yes
Surface Printing (Overall) Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 90 Nom. Inductance: Inductance (µH/m) 0.68901 Nom. Capacitance Conductor to Conductor: Capacitance (pF/m) 85.306 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 49.215 Max. Operating Voltage - UL: Voltage 300 V RMS Max. Recommended Current: Current 5.8 Amps per conductor @ 25°C	Plenum/Non-Plenum	
Electrical Characteristics (Overall) Nom. Characteristic Impedance:	Plenum (Y/N):	No
Inductance (µH/m) 0.68901 Nom. Capacitance Conductor to Conductor: Capacitance (pF/m) 85.306 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 49.215 Max. Operating Voltage - UL: Voltage 300 V RMS Max. Recommended Current: Current 5.8 Amps per conductor @ 25°C	Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm)	
Capacitance (pF/m)         85.306         Nom. Conductor DC Resistance:         DCR @ 20°C (Ohm/km)         49.215         Max. Operating Voltage - UL:         Voltage         300 V RMS         Max. Recommended Current:         Current         5.8 Amps per conductor @ 25°C	Inductance (μH/m) 0.68901	
DCR @ 20°C (Ohm/km)         49.215         Max. Operating Voltage - UL:         Voltage         300 V RMS         Max. Recommended Current:         Current         5.8 Amps per conductor @ 25°C	Capacitance (pF/m) 85.306	
Voltage 300 V RMS Max. Recommended Current: Current 5.8 Amps per conductor @ 25°C		
Current 5.8 Amps per conductor @ 25°C		
Put Ups and Colors:		
	Voltage 300 V RMS Max. Recommended Current: Current	

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9407 060U1000	305 MT	8.618 KG	CHROME		2 #22 PVC PVC



#### METRIC MEASUREMENT VERSION

#### 9407 Multi-Conductor - 300V Power-Limited Tray Cable

9407 060U500	152 MT	4.536 KG	CHROME		2 #22 PVC PVC
9407 0602500	762 MT	21.546 KG	CHROME	Z	2 #22 PVC PVC

#### Notes:

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 2 Revision Date: 11-23-2009

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