REQUIRED PRINT LEGEND AND BASIC CONSTRUCTION REQUIREMENTS

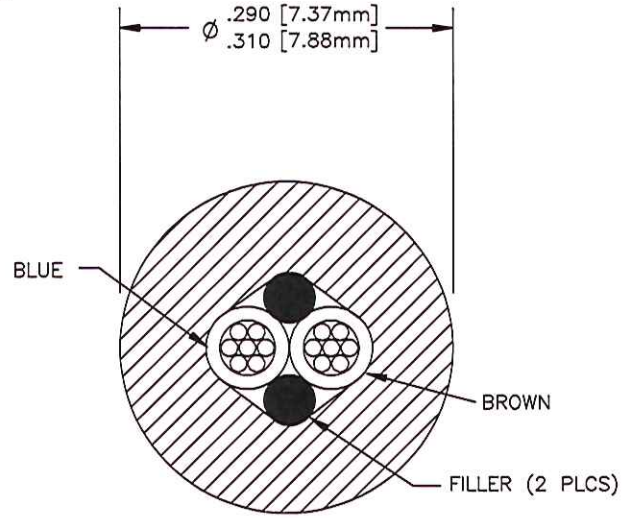
UL Requirements										CSA Requirements											
gauge/conductors	Vendor UL ID#	agency symbol	UL type	upper temp rating	Outdoor Rating	UL Style	upper temp rating	max. rated voltage	separator	CSA vendor ID#	sheet of CSA ratings	type	Class-treatment/ Reinforced	Mech. shock-Arc-no shock B-shock	upper temp rating	max. rated voltage	flame rating	separator	additional ratings required	additional markings	ROCKWELL Material Master number
22/2	E0000	(UL)	TYPE ITC	90C	SUN RES	OR AWM 20328	105C	600V	- - -	LL00000	CSA	AWM	I/II	A/B	105C	600V	FT1	- - -	OIL AND WATER RESISTANT	SEE NOTE 8	PN-50901

ADDITIONAL REQUIREMENTS BEYOND THOSE STATED IN PRINT LEGEND

JACKET CHARACTERISTICS	
MATERIAL	TPE (OIL RESISTANT)
DUROMETER	65-70 SHORE A
COLOR	YELLOW PANTONE 108C
CONVOLUTIONS	MINIMIZE
TEXT PRINT COLOR ON CABLE	BLACK
CONDUCTOR CONSTRUCTION	
WIRE SIZE	#22 AWG
STRANDING	19/34 [19/.160mm]
CONDUCTOR MATERIAL	TC STRANDING
INSULATION MATERIAL	TPE
INSULATION THICKNESS	.030 [.76mm] WALL
INSULATION DUROMETER	83-93 SHORE A
INSULATION COLOR	SEE DETAIL "A" AND NOTE 4
INSULATION BREAK DOWN VOLTAGE OF INDIVIDUAL CONDUCTOR	2000V MIN
SHIELD CHARACTERISTICS IF REQUIRED	
CONSTRUCTION (SOLID VS LAMINATE VS BRAID)	NA
MATERIAL	
CONDUCTIVE FOIL ORIENTATION AND FOLD TYPE IF APPLICABLE	
DRAIN WIRE AND POSITION	
% COVERAGE IF BRAIDED	
ADDITIONAL CONSTRUCTION REQUIREMENTS	
FILLERS	REQUIRED: SOFT, SOLID, THERMOPLASTIC ELASTOMER "TPE" FILLERS. TISSUE SEPARATOR PERMITTED.
CONDUCTOR TWIST	CONDUCTORS TO BE TWISTED
CABLE STRIPPING AID	REQUIRED: TISSUE BETWEEN CONDUCTORS AND JACKET.
ADDITIONAL AGENCY RATINGS REQUIRED	
CABLE COLD BEND TEMPERATURE	REQUIRED-(-50C) PER CSA 22.2 NO 49-92
OIL RESISTANCE AND AGENCY STANDARD	REQUIRED-PER UL 508
UV RESISTANCE AND AGENCY STANDARD	REQUIRED-PER UL 508
WATER RESISTANCE AND AGENCY STANDARD	REQUIRED-PER UL 62
REEL SPECIFICATIONS	
MAX REEL DIAMETER	18" [457mm]
MAX REEL HEIGHT	16" [406mm]
MAX REEL WEIGHT	100# [45Kg]
REEL HOLE DIAMETER	1" TO 2.5" (25.4 mm TO 63-5mm)

GENERAL NOTES:

1) SUPPLIERS MUST BE UL AND CSA APPROVED FOR THE CONSTRUCTION OF THIS CABLE. IT IS THE SUPPLIER'S RESPONSIBILITY TO SEE THAT THE CONSTRUCTION OF THE PRODUCT AND THE PRINT LEGEND MEET AGENCY REQUIREMENTS.
2) SUPPLIERS TO INSERT THEIR UL AND CSA FILE NUMBERS IN PRINT LEGEND WHERE SHOWN.
3) FILLERS MUST NOT CAUSE THE OUTER JACKET TO SHOW CONVOLUTIONS OR DISTORTION WHEN SUBJECTED TO RATED TEMPERATURE RANGE.
4) ORIENTATION OF WIRE COLOR IS CRITICAL TO FINAL ASSEMBLY. CONDUCTOR COLORS SHOULD BE ORDERED COMING OFF REEL AS SHOWN PER DETAIL "A".
5) CONCENTRICITY OF OUTER JACKET TO INNER BUNDLE- WHEN MEASURED AT ANY SINGLE CROSS SECTION, THE MEASURED "MINIMUM" WALL THICKNESS MUST BE AT LEAST 75% OF THE MEASURED "MAXIMUM" WALL THICKNESS.
6) SILICONE MUST NOT BE USED IN THE CONSTRUCTION OF THIS CABLE.
7) INTERNAL CONDUCTOR SPLICES ARE NOT PERMITTED.
8) THE ALLEN-BRADLEY MARK PER ARTWORK 40028-500 AND THE ToughLink SIGNATURE PER ARTWORK 58-6186 TO BE PRINTED ON THE JACKET ON THE SAME LINE AND CENTERED BETWEEN THE CABLE IDENTIFICATION MARKINGS. THE HEIGHT OF THE "ALLEN-BRADLEY ToughLink" SIGNATURE TO BE .135 MIN.
9) THIS COMPONENT AND SUBASSEMBLIES IF APPLICABLE SHALL BE MANUFACTURED FROM MATERIALS THAT MEET ROCKWELL AUTOMATION'S RoHS PROCESS SPECIFICATION NUMBER 40001-450.
10) THE CABLE MUST BE MANUFACTURED SO A 2.5 INCH LONG SECTION OF THE OUTER JACKET CAN BE READILY STRIPPED OFF USING A SCHLEUNIGER POWER STRIP 9500 CABLE PROCESSING MACHINE USING BOTH V-SHAPED AND CIRCULAR BLADES.



WIRE CROSS SECTION

DETAIL A

PN-50901
MATERIAL MASTER

APPROVED SUPPLIER CODE:
VENDOR #2001756

REF. DRAWING 75001-203

Rockwell Automation

Cable 2 Cond - ToughLink - 871TM

Drawn by: RAFORTIE | Date: 06/17/2010

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Sheet 1 Of 1

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