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COGNEX®
1 VISION DRIVE, NATICK, MA 01760

TITLE: CABLE, M12 MALE TO RJ-45 MALE STRAIGHT DC KEY, 8/C, X-CODE, 26 AWG, (Template T)

DRAWING NUMBER	ORIGINATOR	DATE
SEE CHART Rev: 9/23/2014	C.Griffith	9/23/2014
	CHECKED BY	
	APPROVED	
SCALE: N/A	PRODUCT ID: SEE CHART	SHEET: 1 OF 2
	MAT'L: SEE LIST / SPEC.	

UNLESS OTHERWISE SPECIFIED
ALL SURFACE FINISHES 32 MICRO - INCHES OR BETTER
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ±1/64 DECIMALS .XX±.05 .XXX REF ANGLES ±0°15'

SIZE A

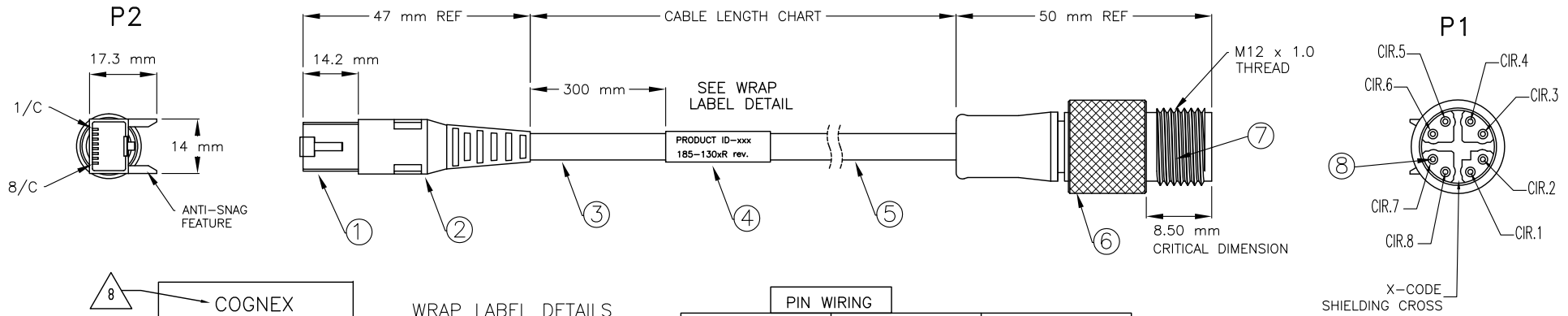
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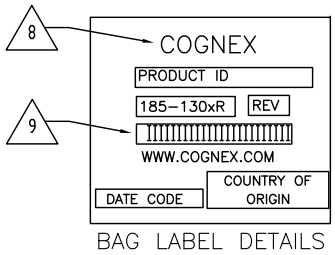
REVISIONS

E.C.O	REV.	DESCRIPTION	DWN.	DATE
–	9/23	RELEASE FOR QUOTE ONLY	CBG	9/23/2014

DRAWING #	CABLE LENGTH	PRODUCT ID
185-1305R	.6M +45mm-0mm (2')	NOT ASSIGNED
185-1304R	2M +100mm-0mm (6'7")	NOT ASSIGNED
185-1303R	5M +165mm-0mm (16'4")	NOT ASSIGNED
185-1306R	10M +315mm-0mm (32'8")	NOT ASSIGNED
185-1307R	15M +315mm-0mm (49'2")	NOT ASSIGNED
185-1308R	30M +620mm-0mm (98'5")	NOT ASSIGNED

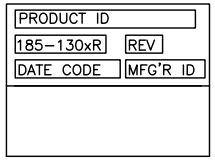
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BAG LABEL DETAILS

WRAP LABEL DETAILS



PIN WIRING

P2	P1	WIRE
1/C	CIR.1	WHITE ORANGE
2/C	CIR.2	ORANGE
3/C	CIR.3	WHITE GREEN
4/C	CIR.8	BLUE
5/C	CIR.7	WHITE BLUE
6/C	CIR.4	GREEN
7/C	CIR.5	WHITE BROWN
8/C	CIR.6	BROWN
RJ-45 SHIELD	METAL SHELL	SHIELD

NOTES:

1. THIS CABLE MUST BE MADE FROM UL AND CSA RECOGNIZED OR LISTED PARTS.
2. THIS CABLE MUST BE SUPPLIED BY A UL AND CSA APPROVED VENDOR AND MUST BE SHIPPED IN THE APPROPRIATELY MARKED CONTAINERS.
3. THIS DELIVERABLE MUST COMPLY WITH THE EU RoHS DIRECTIVE THAT RESTICTS THE USE OF HAZARDOUS SUBSTANCES AS DEFINED IN THE COGNEX STANDARD S707.
4. SHIELD TO BE TERMINATED TO COUPLING NUT (ITEM 6).
5. SEE CONNECTOR VIEWS FOR PIN ORIENTATIONS.
6. HIGH POT TEST AND VERIFY CONTINUITY ON ALL CONDUCTORS.
7. CABLE TO BE COILED AND PACKAGED IN AN 8" X 10" CLEAR PLASTIC BAG.
8. COGNEX LOGO FONT: EUROSTILE EXT2
9. BARCODE CONTENT: 185- per chart
   BARCODE TYPE: 128 6MM HIGH (MIN)

PARTS LIST

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH
1	1	RJ-45 PLUG, SHIELDED	POLYCARB, BRASS	PER VENDOR
2	1	OVERMOLD, STRT, RJ-45	PVC	BLACK
3	A/R	CABLE, SHIELDED HI-FLEX, CAT 5E, 26 AWG	PVC JACKET	TEAL
4	1	WRAP LABEL	PLASTIC FILM	BLACK/YELLOW
5	1	OVERMOLD, STRT, MALE (PLUG), MICRO-C	PVC	BLACK
6	1	COUPLING RING, EXT. THREAD	STAINLESS STEEL	PASSIVATED
7	1	INSULATOR, MALE, 8/C (INTERNAL)	NYLON	BLACK
8	8	CONTACT PIN, IEC	BRASS	GOLD PLATED

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	Component	Parameter	Requirement
M12-8 Connector	Nut	Material	Stainless steel
		Plating	Passivate
		Size (knurl length)	16.5mm
	Coding	Type	"X" Code
	Pins	Material	Brass
		Plating	Gold plate
		Type	IEC
	Insert	Material	Zinc DieCast, Nickle Plate
	Overmold	Material	PVC
	Strain Relief	length	15mm
RJ-45 Connector	Connector Type	Type	Cat 6
	Shield	Type	Full
		Material	Brass
		Plating	Tin
	Overmold	Material	PVC
		Overall Length	33mm
		Lock protection	Molded anti-snag feature
Cable	Type	Type	Cat 5e
		UL Style	2464
	Jacket	Jacket material	PVC
		Jacket thickness	0.8mm
		Overall Dia	6.8mm
		Jacket color	Teal
	Conductors	Pairing	4 twisted pairs
		Wire	26AWG
		Cond insulation material	Polypropylene
		Cond overall dia	1.0mm
		Stranding	19 / 38AWG
	Shield	Type	Braid
		Braid wire	38 AWG tinned copper
		Braid coverage	≧90%
Cable Assembly	Perfomance	Current rating	2A
		Voltage rating	60V
		Operating temp	-0C - 80C
		Linear Bend Cycle rating	1,000K (10 x OD)
		Tortional Cycle rating	30K (180°)
		Compliance (elect)	UL & CSA comp parts
		Compliance (env)	Rohs
		Flame Rating	IEC 60332-1-2
		Protection (moisture)	IEC IP67
		Electrical	EIA-TIA 568 B.2 Category 5e

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